<222> (41) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (43) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (99) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (121·) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1542 Gly Phe Xaa Ala Ala Ala Ala Ala Ala Val Val Ala Ala Ala Ala Ala Ala Ala Ser Val Glu Gly Arg Gln Pro Pro Gly Leu Gly Ala Val Gly 20 Pro Ala Gly Arg Xaa Ala Gly Ser Xaa Gly Xaa Arg Met Pro Ala Gly Arg Val Ala Gly Ala Val Thr Gly Leu Gly Val Ser Trp Leu Arg Gly Lys Asn Ser Gly Val Pro Gly Ala Ala Leu Pro Pro Ala Ala Pro Ser Val Ala Ser Leu Val Ala His Ser Gly Pro Ala Val Gly Pro Pro Leu Ser Pro Xaa Ser Val Pro Gln Gly Gly Tyr Ser Lys Ser Gly Leu Pro 105 Leu Gln Asp Ala Gly Ser Pro Trp Xaa His Cys Arg Gly Thr Asp Cys 120 Gly Ser Ser Met Leu Asn Gly Val Glu Ala Gly Leu Ala Ala Ala Ala Ser Cys Cys His 145 <210> 1543 <211> 191 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (180) <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (181)
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1543
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
                         55
Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr
                                     90
Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
                                105
Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
                            120
                                                 125
Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
                         135
Phe Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Thr
                                         155
                     150
Met Ala Pro Thr Trp Gln Leu His Ser Gly Leu Gly Gly Pro Gly Leu
                                     170
                 165
Pro Gly Ser Xaa Xaa Tyr Ser Pro Gln Val Glu Gly Ala Xaa Gly
             1.80
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<210> 1544

<211> 165

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (5) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (7) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (28) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (33) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1544 Asn Xaa Phe Ala Xaa Trp Xaa Gln Lys Asp Thr Leu Arg Ile Gln Trp Lys Lys His Ser Tyr Pro Phe Val Thr Phe Gln Xaa Tyr Ser Leu Ile Xaa His Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys 40 Asn Thr Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro 55 Ile Asp Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu Arg Leu Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu Asn Ile Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His Gly Tyr Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn 120

Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp 130

Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe 155 145

Leu Asn Tyr Ile Cys 165

<210> 1545 <211> 303

<212> PRT

<213> Homo sapiens

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<220>
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<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (294)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1545
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
                                     10
Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
                        . 25
Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
                   .
Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
                         55
 Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
                      70
  65
Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr
                                      90
                  85 .
 Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
             100
 Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
                             120
         115
```

Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser 130 135 140

Ser Pro Ala Léu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn 145 150 155 160

Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Xaa 165 170 175

Xaa Leu Xaa Leu Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Xaa 180 185 190

Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys 195 200 205

Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu 210 215 220

Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu 225 230 235 240

Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr 245 250 255

Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu 260 265 270

Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp 275 280 285

Arg Lys His Ile Asp Xaa Thr Asn Xaa Asn Lys Arg Glu Xaa Ile 290 295 300

<210> 1546

<211> 1

<212> PRT

<213> Homo sapiens

<400> 1546

Met

1

<210> 1547

<211> 547

<212> PRT

<213> Homo sapiens

<400> 1547

Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser

1 5 10 . 15

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr 20 25 30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn

		35					40					45			٠
Asn	Ser 50	Ala	Lys	Ser	Leu	Phe 55	Pro	Lys	Thr	Ser	Leu 60	Ile	Pro	Leu	Lys
Pro 65	Leu	Thr	Glu	Thr	Glu 70	Leu	Arg	Ile	Lys	Glu 75	Ile	Ile	Glu	Lys	Leu 80
Asp	Gln	Gln	Ile	Pro 85	Pro	Arg	Pro	Phe	Thr 90	His	Val	Asn	Thr	Thr 95	Thr
Ser	Ala	Thr	His 100	Ser	Thr	Ala	Thr	Ile 105	Leu	Asn	Pro	Arg	Asp 110	Thr	Tyr
Cys	Arg	Gly 115	Asp	Gln	Leu	Asp	Ile 120	Leu	Leu	Glu	Val	Arg 125	Asp	His	Leu
Gly	Gln 130	Arg	Lys	Gln	Tyr	Gly 135	Gly	Asp	Phe	Leu	Arg 140	Ala	Arg	Met	Ser
Ser 145	Pro	Ala	Leu	Thr	Ala 150	Glý	Ala	Ser	Gly	Lys 155	Val	Met	Asp	Phe	Asn 160
Asn	Gly	Thr	Tyr	Leu 165	Val	Ser	Phe	Thr	Leu 170	Phe	Trp	Glu	Gly	Gln 175	Val
Ser	Leu	Ser	Leu 180	Leu	Leu	Ile	His	Pro 185	Ser	Glu	Gly	Ala	Ser 190	Ala	Leu
Trp	Arg	Ala 195	Arg	Asn	Gln	Gly	Туr 200	Asp	Lys	Ile	Ile	Phe 205	ГÀЗ	Gly	Lys
Phe	Val 210	Asn	GŢĀ	Thr	Ser	His 215	Val	Phe	Thr	Glu	Cys 220	Gly	Leu	Thr	Leu
Asn 225	Ser	Asn	Ala	Glu	Leu 230	Cys	Glu	Tyr	Leu	Asp 235		Arg	Asp	Gln	Glu 240
Ala	Phe	Tyr	Cys	Met 245	ГЛЗ	Pro	Gln	His	Met 250		Cys	Glu	Ala	Leu 255	Thr
Tyr	Met	Thr	Thr 260	Arg	Asn	Arg	Glu	Val 265	Ser	Tyr	Leu	Thr	Asp 270	Lys	Glu
Asn	Ser	Leu 275	Phe	His	Arg	Ser	Lys 280		Gly	· Val	. Glu	Met 285		Lys	Asr
Arg	Lys 290		Ile	Asp	Val	Thr 295		. Cys	Asn	Lys	Arg 300		Lys	Ile	Glu
Glu 305		Суз	Gln	Val	Gly 310		. Lys	Pro	Pro	Val 315		Gly	Gly	Tyr	320
Leu	Gln	Gly	Lys	Trp 325		Thr	Thr	Phe	330		n Gln	\Val	Gln	1 Leu 335	. Ası
Thr	Ile	Lys	: Ile 340		Gly	Суз	Let	ьуя 345		r Lys	s Lev	ı Ile	Tyr 350		Le

Gly Asp Ser Thr Leu Arg Gln Trp Ile Tyr Tyr Phe Pro Lys Val Val

355 360 365

Lys Thr Leu Lys Phe Phe Asp Leu His Glu Thr Gly Ile Phe Lys Lys 370 , 375 380

His Leu Leu Leu Asp Ala Glu Arg His Thr Gln Ile Gln Trp Lys Lys 385 390 395

His Ser Tyr Pro Phe Val Thr Phe Gln Leu Tyr Ser Leu Ile Asp His 405 410 415

Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys Asn Thr 420 425 430

Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro Ile Asp 435 440 445

Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu Arg Leu 450 455 460

Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu Asn Ile 465 470 475 480

Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His Gly Tyr
485 490 495

Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn Val Gly
. 500 505 510

Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp Thr Ile 515 520 525

His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe Leu Asn 530 535 540

Tyr Ile Cys 545

<210> 1548

<211> 246

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> ·

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548

Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu 1 5 10 15

Gln Leu Gln Phe Ala Ala Leu Leu Leu Gly Thr Leu Ser Xaa Gln Val 20 25 30

His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly
35 40 45

Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu 50 55 60

Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala 65 70 75 80

Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln 85 90 95

Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val 100 105 110

His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg 115 120 125

Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln 130 135 140

Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly 145 150 155 160

Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu 165 170 175

Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Thr Pro Pro Met Asp Gly
180 185 190

Ser Thr Gly Lys Tyr Met Ser Gln Leu Gly Val Leu Arg Glu Gly Pro 195 200 205

Ala Ala His Xaa Gly Thr Pro Gly Ser Gly Thr Xaa Leu Leu Asp Thr 210 215 220

Arg Asn Leu Gly Arg Ala Leu Gly Asn Gly Pro Ala Thr Pro Leu Gly 225 230 235 240

Thr Lys Xaa Arg Ala Trp 245

<210> 1549

<211> 473

<212> PRT ·

<213> Homo sapiens

<220> <221> SITE <222> (321) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (386) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (391) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1549 Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu Gln Leu Gln Phe Ala Ala Leu Leu Leu Gly Thr Leu Ser Pro Gln Val His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala 75 Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val 105 His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg 120 Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln 135 Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly 150 Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu 165 Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Ala Pro Pro Met Asp Gly Ser Pro Gly Lys Tyr Met Ser His Leu Ala Ser Cys Gly Met Gly Leu .195 Leu Leu Thr Val Asp Pro Gly Ser Gly Thr Val Leu Trp Thr Gln Asp

Leu Gly Val Pro Val Met Gly Val Tyr Thr Trp His Gln Asp Gly Leu

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235. 230 225 Arg Gln Leu Pro His Leu Thr Leu Ala Arg Asp Thr Leu His Phe Leu 245 Ala Leu Arg Trp Gly His Ile Arg Leu Pro Ala Ser Gly Pro Arg Asp 265 260 Thr Ala Thr Leu Phe Ser Thr Leu Asp Thr Gln Leu Leu Met Thr Leu 280 Tyr Val Gly Lys Asp Glu Thr Gly Phe Tyr Val Ser Lys Ala Leu Val 295 His Thr Gly Val Ala Leu Val Pro Arg Gly Leu Thr Leu Ala Pro Ala 315 310 Xaa Gly Pro Thr Thr Asp Glu Val Thr Leu Gln Val Ser Gly Glu Arg 325 330 Glu Gly Ser Pro Ser Thr Ala Val Arg Tyr Pro Ser Gly Ser Val Ala Leu Pro Ser Gln Trp Leu Leu Ile Gly His His Glu Leu Pro Pro Val 360 355 Leu His Thr Thr Met Leu Arg Val His Pro Thr Leu Gly Ser Gly Thr 375 Ala Xaa Thr Arg Pro Pro Xaa Asn Thr Gln Ala Pro Ala Phe Phe Leu 395 · 390 385 Glu Leu Leu Ser Leu Ser Arg Glu Lys Leu Trp Asp Ser Glu Leu His Pro Glu Glu Lys Thr Pro Asp Ser Tyr Leu Gly Leu Gly Pro Gln Asp . 420 Leu Leu Ala Ala Ser Leu Thr Ala Val Leu Leu Gly Gly Trp Ile Leu 440

Phe Val Met Arg Gln Gln Gln Pro Gln Val Val Glu Lys Gln Gln Glu 450 455

Thr Pro Leu Ala Pro Ala Ala Trp Gly 470

<210> 1550 <211> 98 <212> PRT <213> Homo sapiens

<400> 1550 Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu 20

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly His His 50 55 60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu 65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala 85 90 95

Leu Ala

<210> 1551

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1551

Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu

1 5 10 15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu 20 25 30 .

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro 35 40 45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly His His 50 55 60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu 65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala 85 90 95

Leu Ala

<210> 1552

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1552

Met Gly Val Leu Trp Tyr Thr Phe Trp Tyr Thr Phe Thr Leu Leu Glu

1 5 10 15

Cys Ser Arg Ser Ser Asn Asp Ser Arg Thr Leu Val Leu Ile Cys Leu 20 25 30

Ser Leu Leu Gly Phe Asp Phe Val Arg Val Leu Asn Ile Lys Leu Ala

35 40 45

Val Gly Glu Ser Thr Leu His Met Leu Ser Leu Pro Phe Ser Leu Arg
50 55 60

Leu Ser Pro Ala Leu Pro Phe Ser Pro Phe Leu Leu Leu Met Asn Lys 65 70 75 80

Pro Leu Ser Asp Val Gln Tyr Phe Asn Leu His Phe Ala Gly 85 90

<210> 1553

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1553

Xaa Xaa Tyr Asp Glu Lys Leu Ile Phe Ile Gln Ile Leu Gln Thr Lys
1 5 10 15

Ala Thr Asp Lys Tyr Ser Glu Gln Val Ser Gln Val Gly Pro Gly Ala
20 25 30

Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly
35 40 45

Ser

<210> 1554

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1554

Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu 1 5 10 15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg 20 25 30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr 35 40 45

Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr 50 60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro 65 70 75 80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro 85 90 95

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr 100 105 110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val 115 120 125

Glu Trp Glu His Leu Ser Pro Phe Asn Thr Ala Xaa Ala 130 135 140

<210> 1555

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1555

Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu 1 5 10 15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg 20 25 30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr

Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr.
50 55 60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro 65 70 75 80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr . 100 105 110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val 115 120 125

Glu Trp Glu His Leu Ser Pro Ser Asn Thr Ala Gly Ala 130 135 140

<210> 1556 <211> 93

PCT/US01/11988 WO 01/77137

<212> PRT

<213> Homo sapiens

<400> 1556

Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val 55 60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu 85

<210> 1557

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1557

Glu Glu His Gly Ile Thr Ser Val Ile Phe Leu Pro Gln Val His Asn 10

Leu Asn Leu Ile Ile Arg Lys His Gln Thr Asn Pro Asn Gln Glu Thr 25

. Leu Tyr Lys Ile Met Thr Cys Asp Pro Gln Asn Leu Gln Gly His Glu 40

Gln Gln Gly Lys Thr Glu Asp Lys Cys Thr Val 55

<210> 1558

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1558

Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu 20

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys 40

Glu Thr Val Ser Pro Leu Lys Leu Phe-Phe Phe Ile Asn Tyr Pro Val

50 55 60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly 65 70 75 80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu 85

<210> 1559

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221>, SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1559

Met Leu Leu Gln Arg Thr Arg Phe Leu Leu Leu Phe Phe Ser Phe Val

Ser Ser Phe Phe Leu Ser Leu Pro Ser Phe Ser Leu Phe Phe Leu Phe 20 25 30

Leu Ser Leu Ser Leu Phe Cys Ile His Val Ala Ala Lys Asp Met Ile 35 40 45

Ser Ser Phe Phe Ser Leu Pro Phe Ser Phe Leu Ser Phe Xaa Leu Ser 50 60

Phe Leu Leu Pro Ser Phe Ser Phe Phe Tyr Phe Phe Phe Phe Trp Leu 65 70 75 80

Ser Phe Phe Phe Xaa Ser Lys Xaa Leu Ala Leu Val Pro Lys Xaa Gly 85 90 95

Met Gln Xaa Val

100

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<210> 1560
<211> 87
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1560
Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
                             40
 Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser
                         55
                                  . 60
Trp Cys Thr Pro Arg Leu Xaa Ser Trp Leu Arg Asp Thr Pro Ser Pro
                                         75
                     70
Leu Ala Ser Gly Thr Xaa Pro
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<210> 1561

<211> 49

<212> PRT

<213> Homo sapiens

85

<400> 1561

Val Arg Ala Met Phe Gly Phe Leu Ala Cys Val Ser Ser Leu Arg Val 1 5 10 15

Met Ala Ser Ser Ser Ser His Val Thr Ser Glu Asp Met Ile Leu Phe 20 25 30

Leu Ile Ser Cys Gly Ile Tyr Val Pro His Phe Leu Tyr Pro Val Asp 35 40 45

Arg

<210> 1562 <211> 168 <212> PRT <213> Homo sapiens

<400> 1562

Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu

1 5 10 15

Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly 20 25 30

Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro 35 40 45

Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser 50 55 60

Trp Cys Thr Pro Arg Leu Leu Ser Trp Leu Arg Asp Thr Pro Ser Pro 65 70 75 80

Leu Ala Ser Gly Thr Phe Pro Pro His Ser Pro Leu Gly Glu Arg Pro 85 90 95

Leu Leu Ser Gly Pro Pro Ser Ser Ser Gln Gln Leu Leu Val Val Gly 100 105 110

Pro Cys Ala Leu Arg Phe Val Gly Ala Arg His Val Lys Thr Ala Gly
115 120 125

Phe Arg Asp Gly Phe Ser Leu Pro Ser Ser Ser Val Phe Ser Glu Phe 130 135 140

Trp Lys Met Thr Leu Leu Glu Ala Pro Leu Leu Cys His Leu Ser Ser 145 150 155 160

Lys Ser Gly Ala Ser Ala Cys Trp 165

<210> 1563

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1563
Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp
Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr
                     70
Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu
Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala
                                105
            100
Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly
                            120
Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Xaa Gln Leu Ala Thr
                        135
    130
Gly Gln Ala Gly Ile Ile Leu Val Ser Val Xaa Pro Ala Tyr Gln Ala
Met Glu Trp Ser Xaa Ser Ser Lys Lys Trp Ala Ser Xaa Ala Leu Val
                          · 170
                 165
Val Pro Lys Gln Phe Lys Thr Lys His Asn Thr Thr Phe Leu Lys Gln .
                                185
Ile Xaa Pro Xaa Trp Arg Met Pro
       195
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<210> 1564 <211> 100

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<212> PRT
<213> Homo sapiens .
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1564
Met Ala Xaa Tyr Val Gly Met Leu Arg Leu Gly Xaa Leu Cys Ala Gly
               5 10
Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
                         . . 25
            20 .
Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Gly
                           40
        35 .
Ser His Gly Leu His Ala His Arg Xaa Ala Ser Ala Thr Xaa Arg Gly
Ala Pro Lys Ser Ile Leu Thr Ala Arg Leu Trp Ala Ser Ala Trp Xaa
                                   75
Pro Gln His Arg Gly Ser Gln Asn Glu Arg Pro Trp Ser Ser Ser Met
                                  90
Lys Thr Ser Gly
            100
<210> 1565
<211> 461
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (424)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE

<222> (459)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1565

Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
1 5 10 15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
20 25 30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp 35 40 45

Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
50 55 60

Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr 65 70 75 80

Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu 85 90 95

Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala 100 105 110

Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly 115 120 125

Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Met Gln Leu Ala Thr 130 135 140

Ala Gln Ala Gly Ile Ile Leu Val Ser Val Asn Pro Ala Tyr Gln Ala 145 150 155 160

Met Glu Leu Glu Tyr Val Leu Lys Lys Val Gly Cys Lys Ala Leu Val 165 170 175

Phe Pro Lys Gln Phe Lys Thr Gln Gln Tyr Tyr Asn Val Leu Lys Gln 180 185 190

Ile Cys Pro Glu Val Glu Asn Ala Gln Pro Gly Ala Leu Lys Ser Gln 195 200 205

Arg Leu Pro Asp Leu Thr Thr Val Ile Ser Val Asp Ala Pro Leu Pro 210 215 220

Gly Thr Leu Leu Leu Asp Glu Val Val Ala Ala Gly Ser Thr Arg Gln 225 230 235 240

His Leu Asp Gln Leu Gln Tyr Asn Gln Gln Phe Leu Ser Cys His Asp 245 250 255

Pro Ile Asn Ile Gln Phe Thr Ser Gly Thr Thr Gly Ser Pro Lys Gly 260 265 270

Ala Thr Leu Ser His Tyr Asn Ile Val Asn Asn Ser Asn Ile Leu Gly

285 280 275 Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln Leu Arg Met Ile 295 Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser Val Ala Gly Thr Met 310 Met Cys Leu Met Tyr Gly Ala Thr Leu Ile Leu Ala Ser Pro Ile Phe Asn Gly Lys Lys Ala Leu Glu Ala Ile Ser Arg Glu Arg Gly Thr Phe Leu Tyr Gly Thr Pro Thr Met Phe Val Asp Ile Leu Asn Gln Pro Asp Phe Ser Ser Tyr Asp Ile Ser Thr Met Cys Gly Gly Val Ile Ala Gly 380 Ser Pro Ala Pro Pro Glu Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn 395 Met Lys Asp Leu Val Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val 405 410 Thr Phe Ala His Phe Pro Glu Xaa Thr Pro Lys Pro Leu Asp Lys Glu 425 Lys Arg Ala Glu Tyr Ala Ser His Gly Gly Glu Pro Leu Thr Lys Thr 440 Ser Lys Ser His Leu Pro Ser Pro Ser Trp Xaa Gly Ser 455 <210> 1566 <211> 177 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (121) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1566 Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 25

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr

35 40 45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
50 60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu 65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile 85 90 95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Xaa Xaa Leu Ala Arg Gly Val Ile 115 120 125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe 130 135 140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys 145 150 155 160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Ser Ser Ile Leu 165 170 175

Gly

<210> 1567

<211> 255

<212> PRT.

<213> Homo sapiens

<400> 1567

Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala 1 5 10 15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 20 25 30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
50 60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Gln Arg Leu Glu 65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile 85 90 95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile 115 120 125

<210> 1568

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1568

Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala 1 5 10 15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro 20 25 30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr 35 40 45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Dys Glu Glu Thr Val Cys Glu 50 60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu 65 70 75 80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile 85 90 95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe 100 105 110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile 115 120 125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe 130 140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys 145 150 155 160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe 165 170 175

Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
180 185 190

Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn 195 200 205

Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val 210 215 220

Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val 225 230 235 240

Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
245 250 255

<210> 1569

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1569

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu

1 5 10 15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile 20 25 30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Xaa Ile Pro 35 40 45

Pro Leu Ser Pro 50

<210> 1570

<211> 1134

<212> PRT

<213> Homo sapiens

<400> 1570

Val Leu Phe Arg Pro Gln Ala Gln Arg Pro Pro Ser Cys Val Gly Gly 1 5 10 15

Ser Ala Val Arg Arg Trp Gln Gly Gln Pro Gln Pro Gln Arg Pro Gly 20 25 30

Glu Glu Lys Ala Ala Ala Ile Leu Gly Gly Pro Gly Gly Glu Glu Glu Lys Glu Glu Gly Gly Gly Arg Ala Trp Leu Arg Leu Leu Glu Glu Leu Ala Ala Ala Arg Pro Gly Glu Pro Ala Leu Met Ser Ser Ser Pro Leu Ser Lys Lys Arg Arg Val Ser Gly Pro Asp Pro Lys Pro Gly Ser Asn Cys Ser Pro Ala Gln Ser Val Leu Ser Glu Val Pro Ser Val Pro Thr Asn Gly Met Ala Lys Asn Gly Ser Glu Ala Asp Ile Asp Glu Gly Leu Tyr Ser Arg Gln Leu Tyr Val Leu Gly His Glu Ala Met Lys Arg Leu Gln Thr Ser Ser Val Leu Val Ser Gly Leu Arg Gly Leu Gly 155 Val Glu Ile Ala Lys Asn Ile Ile Leu Gly Gly Val Lys Ala Val Thr Leu His Asp Gln Gly Thr Ala Gln Trp Ala Asp Leu Ser Ser Gln Phe 185 Tyr Leu Arg Glu Glu Asp Ile Gly Lys Asn Arg Ala Glu Val Ser Gln 200 Pro Arg Leu Ala Glu Leu Asn Ser Tyr Val Pro Val Thr Ala Tyr Thr Gly Pro Leu Val Glu Asp Phe Leu Ser Gly Phe Gln Val Val Leu 230 235 Thr Asn Thr Pro Leu Glu Asp Gln Leu Arg Val Gly Glu Phe Cys His 250 245. Asn Arg Gly Ile Lys Leu Val Val Ala Asp Thr Arg Gly Leu Phe Gly Gln Leu Phe Cys Asp Phe Gly Glu Glu Met Ile Leu Thr Asp Ser Asn 275 Gly Glu Gln Pro Leu Ser Ala Met Val Ser Met Val Thr Lys Asp Asn 295 Pro Gly Val Val Thr Cys Leu Asp Glu Ala Arg His Gly Phe Glu Ser 305 Gly Asp Phe Val Ser Phe Ser Glu Val Gln Gly Met Val Glu Leu Asn Gly Asn Gln Pro Met Glu Ile Lys Val Leu Gly Pro Tyr Thr Phe Ser

350

Ile Cys Asp Thr Ser Asn Phe Ser Asp Tyr Ile Arg Gly Gly Ile Val 360 Ser Gln Val Lys Val Pro Lys Lys Ile Ser Phe Lys Ser Leu Val Ala 380 375 · Ser Leu Ala Glu Pro Asp Phe Val Val Thr Asp Phe Ala Lys Phe Ser 395 Arg Pro Ala Gln Leu His Ile Gly Phe Gln Ala Leu His Gln Phe Cys Ala Gln His Gly Arg Pro Pro Arg Pro Arg Asn Glu Glu Asp Ala Ala 425 Glu Leu Val Ala Leu Ala Gln Ala Val Asn Ala Arg Ala Leu Pro Ala . 440 Val Gln Gln Asn Asn Leu Asp Glu Asp Leu Ile Arg Lys Leu Ala Tyr Val Ala Ala Gly Asp Leu Ala Pro Ile Asn Ala Phe Ile Gly Gly Leu 475 470 Ala Ala Gln Glu Val Met Lys Ala Cys Ser Gly Lys Phe Met Pro Ile 490 Met Gln Trp Leu Tyr Phe Asp Ala Leu Glu Cys Leu Pro Glu Asp Lys 505 500 Glu Val Leu Thr Glu Asp Lys Cys Leu Gln Arg Gln Asn Arg Tyr Asp 525 520 Gly Gln Val Ala Val Phe Gly Ser Asp Leu Gln Glu Lys Leu Gly Lys 535 Gln Lys Tyr Phe Leu Val Gly Ala Gly Ala Ile Gly Cys Glu Leu Leu 555 550 Lys Asn Phe Ala Met Ile Gly Leu Gly Cys Gly Glu Gly Glu Ile 565 570 Ile Val Thr Asp Met Asp Thr Ile Glu Lys Ser Asn Leu Asn Arg Gln . 580 Phe Leu Phe Arg Pro Trp Asp Val Thr Lys Leu Lys Ser Asp Thr Ala Ala Ala Ala Val Arg Gln Met Asn Pro His Ile Arg Val Thr Ser His Gln Asn Arg Val Gly Pro Asp Thr Glu Arg Ile Tyr Asp Asp Asp Phe 635 625 Phe Gln Asn Leu Asp Gly Val Ala Asn Ala Leu Asp Asn Val Asp Ala 650

Arg Met Tyr Met Asp Arg Arg Cys Val Tyr Tyr Arg Lys Pro Leu Leu 660 665 670

Glu Ser Gly Thr Leu Gly Thr Lys Gly Asn Val Gln Val Val Ile Pro 680 Phe Leu Thr Glu Ser Tyr Ser Ser Ser Gln Asp Pro Pro Glu Lys Ser 695 Ile Pro Ile Cys Thr Leu Lys Asn Phe Pro Asn Ala Ile Glu His Thr 710 715 Leu Gln Trp Ala Arg Asp Glu Phe Glu Gly Leu Phe Lys Gln Pro Ala 730 725 Glu Asn Val Asn Gln Tyr Leu Thr Asp Pro Lys Phe Val Glu Arg Thr . 745 Leu Arg Leu Ala Gly Thr Gln Pro Leu Glu Val Leu Glu Ala Val Gln 760 755 Arg Ser Leu Val Leu Gln Arg Pro Gln Thr Trp Ala Asp Cys Val Thr 775 · Trp Ala Cys His His Trp His Thr Gln Tyr Ser Asn Asn Ile Arg Gln 790 785 Leu Leu His Asn Phe Pro Pro Asp Gln Leu Thr Ser Ser Gly Ala Pro 810 Phe Trp Ser Gly Pro Lys Arg Cys Pro His Pro Leu Thr Phe Asp Val 820 Asn Asn Pro Leu His Leu Asp Tyr Val Met Ala Ala Ala Asn Leu Phe Ala Gln Thr Tyr Gly Leu Thr Gly Ser Gln Asp Arg Ala Ala Val Ala 850 -Thr Phe Leu Gln Ser Val Gln Val Pro Glu Phe Thr Pro Lys Ser Gly 875 Val Lys Ile His Val Ser Asp Gln Glu Leu Gln Ser Ala Asn Ala Ser 890 Val Asp Asp Ser Arg Leu Glu Glu Leu Lys Ala Thr Leu Pro Ser Pro 905 Asp Lys Leu Pro Gly Phe Lys Met Tyr Pro Ile Asp Phe Glu Lys Asp 920 915 Asp Asp Ser Asn Phe His Met Asp Phe Ile Val Ala Ala Ser Asn Leu 935 Arg Ala Glu Asn Tyr Asp Ile Pro Ser Ala Asp Arg His Lys Ser Lys . 950 Leu Ile Ala Gly Lys Ile Ile Pro Ala Ile Ala Thr Thr Thr Ala Ala 970 Val Val Gly Leu Val Cys Leu Glu Leu Tyr Lys Val Val Gln Gly His 990 980

Arg Gln Leu Asp Ser Tyr Lys Asn Gly Phe Leu Asn Leu Ala Leu Pro 995 1000 1005

Phe Phe Gly Phe Ser Glu Pro Leu Ala Ala Pro Arg His Gln Tyr Tyr 1010 1015 1020

Asn Gln Glu Trp Thr Leu Trp Asp Arg Phe Glu Val Gln Gly Leu Gln 1025 1030 1035 1040

Pro Asn Gly Glu Glu Met Thr Leu Lys Gln Phe Leu Asp Tyr Phe Lys 1045 1050 1055

Thr Glu His Lys Leu Glu Ile Thr Met Leu Ser Gln Gly Val Ser Met 1060 1065 1070

Leu Tyr Ser Phe Phe Met Pro Ala Ala Lys Leu Lys Glu Arg Leu Asp 1075 1080 1085

Gln Pro Met Thr Glu Ile Val Ser Arg Val Ser Lys Arg Lys Leu Gly 1090 1095 1100

Arg His Val Arg Ala Leu Val Leu Glu Leu Cys Cys Asn Asp Glu Ser 1105 1110 1115

Gly Glu Asp Val Glu Val Pro Tyr Val Arg Tyr Thr Ile Arg 1125 1130

<210> 1571

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1571

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu 1 5 10 15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile 20 25 30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro 35 40 45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro 50 60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu 65 70 75 80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu 85 90 95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser 100 105 110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro 115 120 125

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile  $20 \hspace{1cm} 25 \hspace{1cm} 30$ 

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro .  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro 50 55 60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu 65 70 75 80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu 85 90 95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser 100 105 110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro 115 120 125

<210> 1573

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63).

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1573

Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val 1 5 10 15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
20 25 30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu 35 40 45

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Xaa Glu 50 60

Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro 65 70 75 80

Ala Leu Phe Val Gly Xaa Asp Ser Ala Gly Leu Ala Val Leu Ser Gly 85 90 95

Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser 100 105 110

Pro Gln Ala Leu Ser Ala Trp.Thr.Leu Cys Cys Cys 115 120

<21.0> 1574

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1574

Asn Ser Ala Arg Asp Gln Ala Ser Gly Glu Ser Ile His His Arg Thr
1 5 10 15

Ser Pro Ser Leu Pro Arg Thr Phe Leu Gly Gln Leu His Ser Gly Leu
20 25 30

Leu His His Leu Pro Cys Asp His Ile Ser His His Val Pro Arg Ser 35 40 45

Xaa Glu Arg Ser Ser Ala Ser Pro Ser Ser Leu Thr Leu Arg Gly Lys 50 55 60

.Val Thr Glu Thr Lys Ser Asp Glu Met Thr Ala Met Tyr Thr Ala Val 65 70 75 80

Lys Gly Arg Glu Gly Arg Asn Asp Thr Asn Gly Arg Glu Leu Leu Gly 85 90 95

Asn

<210> 1575

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1575

Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val

1 10 15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys 20 .25 .30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu 35 40 45

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Gln Glu 50 60

Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro 65 70 75 80

Ala Leu Phe Val Gly Trp Ala Ser Ala Gly Leu Ala Val Leu Gly Gly 85 90 95

Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser 100 105 110

Pro Gln Pro Tyr Arg Pro Gly Pro Ser Ala Ala Arg Glu Tyr Val 115 120 125

<210> 1576

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1576

Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu
1 5 10 15

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu 20 25 30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser 35 40 45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg
50 55 60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg 65 70 75 80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His

Thr His Thr Lys 100

<210> 1577

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1577

Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu

1 5 10 15

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu 20 25 30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser 35 . 40 45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg 50 55 60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg
65 70 75 80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His 85 90 95

Thr His Thr Lys

<210> 1578

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1578

Cys Arg Gly Asp Ile Gln Ile Arg Asp Lys Gly Glu Ala Met Leu Arg 1 5 10 15

Lys Thr Leu Asp Arg Ala His Phe Thr Pro Pro Asn Arg Tyr Ile Trp
20 25 30

Ile Tyr Pro Phe Ser Ala Ser Ser Phe Ser Thr Ile Lys Asn Val Thr
35 40 45

Ile Leu Asn Ala His Lys Ser His Ser Ser Val Thr Phe Cys Glu Cys 50 55 60

Ser Thr Ile Phe Ser Phe Ser Met Thr Phe Gln Pro Gln Ala Glu Lys 65 70 75 80

Thr Val Tyr Ser Leu Thr Gln Arg Leu Lys Arg Ile Phe Tyr Tyr Phe 85 90 95

Lys Tyr Tyr Thr Phe Arg Thr Ile Thr Cys Leu Arg Lys Leu Ser Gln 100 105 110

Asn Val Asp Leu Val Lys 115

<210> 1579

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE <222> (132) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (139) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (168) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (170) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (181) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1579 Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly 40 45 35 Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu 75 Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu 90 Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys 105 Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe 120 Gly Val Met Xaa Phe Leu Asn Ile Ala Met Xaa Ile Val Val Met Val 135 130 Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu 150 Glu Val Val Arg Asn Leu Arg Xaa Val Xaa Ser Leu Thr Phe Leu Val 175 170 165 Gly Met Thr Trp Xaa 180

<210> 1580 <211> 320 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (168) <223> Xaa equals any of the naturally occurring L-amino acids Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu 10 Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly 40 Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu 75 Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe Gly Val Met Phe Phe Leu Asn Ile Ala Met Phe Ile Val Val Met Val Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu 155 Glu Val Leu Arg Asn Leu Arg Xaa Val Val Ser Leu Thr Phe Leu Leu 170 Gly Met Thr Trp Gly Phe Ala Phe Phe Ala Trp Gly Pro Leu Asn Ile 185 180 Pro Phe Met Tyr Leu Phe Ser Ile Phe Asn Ser Leu Gln Gly Leu Phe 200 Ile Phe Ile Phe His Cys Ala Met Lys Glu Asn Val Gln Lys Gln Trp 215 Arg Arg His Leu Cys Cys Gly Arg Phe Arg Leu Ala Asp Asn Ser Asp 235 230 Trp Ser Lys Thr Ala Thr Asn Ile Ile Lys Lys Ser Ser Asp Asn Leu

245 250 255

Gly Lys Ser Leu Ser Ser Ser Ser Ile Gly Ser Asn Ser Thr Tyr Leu 260 265 270

Thr Ser Lys Ser Lys Ser Ser Ser Thr Thr Tyr Phe Lys Arg Asn Ser 275 280 285

His Thr Asp Asn Val Ser Tyr Glu His Ser Phe Asn Lys Ser Gly Ser 290 295 300 .

Leu Arg Gln Cys Phe His Gly Gln Val Leu Val Lys Thr Gly Pro Cys 305 310 315 320

<210> 1581

<211> 131

<212> PRT

<213> Homo sapiens

<400> 1581

Asn Ile Phe Leu Glu Trp Ile Leu Arg Arg Ile Leu Ser Leu Trp Arg

1 10 15

Gly Thr Phe Leu Met His Gly Arg Ala Gly Val Asn Arg Ile Ser Tyr 20 25 30

Trp Pro Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser 35 40 45

Glu Asp Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn 50 55 60

Ser Arg Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met 65 70 75 80

Val Gln Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys 85 90 95

Ile Thr Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys
100 105

Lys Gln Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys 115 120 125

Lys Lys Thr 130

<210> 1582

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1582

PCT/US01/11988 WO 01/77137

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg 75

Ser Met Ser Arg Ser Val Pro 85

<210> 1583

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1583

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg

Ser Met Ser Arg Ser Val Pro · . 85

<210> 1584

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1584

Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala

Val His Pro Ala Pro Ser Thr Ala Pro Val Gln Asp Lys Cys Pro Val 25 ·

Asn Thr Trp Glu Ala Met Gln Ala Ser Ser Gln Gln Leu Leu Gln Thr

976

Asp Pro Arg Pro Lys Pro Phe Leu Leu Pro Pro Leu Pro Pro Leu Leu

Leu Ile Ser Ala Gly Thr Glu Val Ser Ser Leu Val Phe Gln Lys Ser

Pro Leu His Thr Gln Pro Glu Gly Ala Ile Lys Thr Ala Gly Gln Pro 85

Thr Ser Val His Ser Lys Val Leu Ser Lys Gly Ser Leu Leu Gly 105 . 100

Glu

<210> 1585

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1585

Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu 10

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg 25

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys

Arg Phe His Ile Ser Cys^Phe Ser Leu Ser Phe Leu Ile Leu

<210> 1586

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1586 His Gln Ala Ile Lys Pro Gly Tyr Ser Ala Glu Asn Val Ala His Thr

Asp His Thr Leu Gly Cys Val Thr Ile Val Trp Cys Thr Cys Trp Lys 25

Asn Ser Ser Met Leu Leu Gly Asp Ile Ile Ser Val Gly Asn Met Pro 45

Leu Thr Asp Phe Phe Phe Phe Leu Phe Ala Val Gly Leu Gly Gln Leu

60 55 50

Ile Gln Gln Ser Ile Phe Phe Phe Leu Ser Pro Asn Leu Asn Arg 70

Ser Lys Met Cys Ser Gly Ile Pro Gly Asn Arg Cys Val Cys Lys Val 85

Lys Asn Arg Leu Phe Arg Asn Ser Leu Phe Arg Tyr Leu His Pro Ala 105

Ser His Val Lys Tyr Leu Ser Leu Lys Gly Leu Arg Cys Thr Ser Phe 120 115

Ile Ser Tyr Phe Ser 130

<210> 1587

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1587

Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu 10

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg 25

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu 40

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala 55

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys 70

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu

<210> 1588

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1588

Met Glu Leu Ser Cys Pro Gly Ser Arg Cys Pro Val Gln Glu Gln Arg

Ala Arg Trp Glu Arg Lys Arg Ala Cys Thr Ala Arg Glu Leu Leu Glu

25 20

Thr Glu Arg Arg Tyr Gln Glu Gln Leu Gly Leu Val Ala Thr Tyr Phe 40.

Leu Gly Ile Leu Lys Ala Lys Gly Thr Leu Arg Pro Pro Glu Arg Gln

Ala Leu Phe Gly Ser Trp Glu Leu Ile Tyr Gly Ala Ser Gln Glu Leu

Leu Pro Tyr Leu Glu Gly Gly Cys Trp Gly Gln Gly Leu Glu Gly Phe

Cys Arg His Leu Glu Leu Tyr Asn Gln Phe Ala Ala Asn Ser Glu Arg

Ser Gln Thr Xaa Leu Gln Glu Gln Leu Lys Lys Asn Lys Gly Phe Arg

Lys Phe Val Arg Leu Gln Glu Gly Arg Pro Glu Phe Gly Gly Leu Gln 135

Leu Gln Asp Leu Leu Pro Leu Pro Leu Gln Arg Leu Gln Gln Tyr Glu 150

Asn Leu Val Val Ala Leu Ala Glu Asn Thr Gly Pro Asn Ser Pro Asp 170 . 165

His Gln Gln Leu Thr Arg Arg Phe Leu Leu Gly Asn Ala Gly Trp 180 185

Arg Leu Pro Leu Leu Tyr Ser Phe Leu Ile Leu Thr Ser Asn Asn Val 205 200 195

Trp Tyr Asp Pro Ile Phe His 210

<210> 1589

<211> 69

<212> PRT

<213> Homo sapiens

Glu Ile Leu Leu Lys Lys Lys Asn Gln Glu Thr Lys Ser Asn Pro Thr

Lys Pro Gln Met Asn Gln Pro Leu Thr Gln Met Arg Gly Phe Gly Thr

Asp Lys Leu Cys Ala Val. Ser Met Ala Arg His Leu Ser Arg Leu Gln

Leu Cys Lys Cys Gly Tyr Phe Tyr Val Val Tyr Ser Phe Tyr His Leu 55

Phe Phe His Trp Ile

:210> :211> :212> :213>	211 PR1	L C	apien	ıs ·											
<220> <221>	SI	re			of t	:he 1	natur	rally	, occ	urri	ng I	-ami	.no a	cids	
<220: <221: <222: <223:	> SI		uals	any	of t	the :	natu	rall	y oco	curri	ing I	L-ami	ino a	cids	<b>.</b>
<400 Met 1	> 15 Ser	90 Gly	Met <sub>.</sub> '	Thr 5	Leu :	Ser	Ser'	Thr	Asp 1	Met 1	Fyr '	Thr \	/al S	er I 15	Leu
Leu	Leu	Cys	Leu 20	Xaa	Phe :	Lys	Lys	Ser 25	Asp	Pro :	Asp	Pro (	Gly I	Pro	Phe
		35					40		Thr						
	50					55			Gly		Ü			•	
65		·.			70				Gly	, 5				٠	
		٠.		85			·		Leu 90		. •		•		
			100					703	Arg						•
		115					120	• •	Arg						
	130					135	)		Pro		110				
145	i				150				Tyr						
•				165	5				7 Gly 170						
			180	)	-			'T9:							
G1	ı Gl	u Le 19		r Ar	g Tri	ту	r Hi:	s Se: O	r Leu	ı Thi	r Tr	Ala 205	a Ile	e Ser	: Ser
Gl	n Ly 21	s As	n												•

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<210> 1591
<211> 349
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (192) ·
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (334)
<223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (344)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <223> Kaa equals any of the naturally occurring L-amino acids
 <222> (348)
 Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
                                      10
  Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
                                 2,5
  Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
                              40 ·
  Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
                          55
       50
  Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
                       70
  Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
```

85 90 95

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu 100 105 110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp 115 120 125

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr 130 135 140

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His 145 150 150

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr 165 170 175

Thr Pro Gly Phe Ser His Xaa Cys Ser Met Ser Gln Asn Phe Xaa Xaa 180 185 190

Phe Val Ser His Ile Thr Ala Gln Val Ala Ala Ala Ser Ala Gly Asn 195 200 205

Gln Ala Gly Gly Thr Glu Trp Pro Ala Gly Pro Ser Glu Ala Leu Cys 210 215 220

Pro Ala Gln Arg Trp Pro Ala Pro Arg Ser Arg Cys Leu His Arg Pro 225 230 235

Asp Ala Phe Tyr Pro Phe Leu Asn Ala Leu Gly Phe Tyr Val Arg Cys 245 250 255

Phe Leu Val Ala Glu Thr Glu Arg Trp Trp Ser Arg Ala Ser Pro Ser

Ser Pro Arg Leu Leu Gly Gly Gly Gly His Thr Leu Met Gly Thr Gly 275 280 285

Glu Ala Arg Arg Asp Ser Glu Glu Arg Ala Ala Phe Arg Leu Gly Leu 290 295 300

Pro Val Thr Ser Gln Ser Pro Gly Pro Ala Ser His Arg Pro Gln His 305 310 315

Pro Ser Met Gln Leu Pro Val Pro Pro Gly Gln Pro Pro Xaa Leu Asp 325 330 335

Val Cys Val Leu Phe Gly Gly Xaa Xaa Phe Ile Xaa Ile 340 345

<210> 1592

<211> 144

<212> PRT

<213> Homo sapiens

Glu Lys Arg Pro Gly Pro Ala Gly Gly Thr Thr Cys Gly Gln Pro Ser

Cys Pro Gln Ala Phe Arg Gln Ala Leu Lys Arg Thr Glu Leu Pro Arg

Ser Ala Gly Gln Trp Arg Leu Ser Pro Pro Gln Pro Ser Arg Pro Ala

Thr Cys Val Cys Leu Thr Arg Thr His Gln Gly Phe Arg Gly Trp Glu

Leu Asn His Pro His Leu Arg Val Ile Phe Pro Ser Pro Leu Pro Ser

Pro Pro Arg Ala Leu Pro Gly Ala Gly Lys Lys Lys Ser Lys Lys 105

Arg Lys Lys Lys Arg Asn Lys Pro Pro Leu His Ile Met Glu Arg . 125

Lys Tyr Phe Cys Arg Phe Leu Phe Phe Tyr Asn Tyr Ala Trp Lys Lys

<210> 1593

<211> 497

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Kaa equals any of the naturally occurring L-amino acids,

<400> 1593

Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu

	1	00					105			-		110		
Phe Lys	Cys E 115	?ro :	Ile :	Гўs	Glu	Glu 120	Ile	Ala	Leu	Thr	Ser 125	Gly	Glu	Trp
Glu Val	Leu A	Ala i	Arg	His	Gly 135	Ser	Lys	Ile	Trp	Val 140	Asn	Glu	Glu	Thr
Lys Leu 145	Val 1	Tyr	Phe	Gln 150	Gly	Thr	Lys	Asp	Thr 155	Pro	Leu	Glu	His	His 160
Leu Tyr	Val '	Val	Ser 165	Tyr	Glu	Ala	Ala	Gly 170	Glu	Ile	Val	Arg	Leu 175	Thr
Thr Pro		Phe 180	Ser	His	Xaa	Суз	Ser 185	Met	Ser	Gln	Asn	Phe 190	Asp	Met
Phe Val	195			•		200					200			
Tyr Lys 210					213					200				
Phe Trp 225				230					233	•				
Pro Pro			245				•	250	J				200	
Gly Met		260			٠.		26:	•				2,,	•	٠.
Thr Val	275					280	, 				۵0.			
Ser Phe	1				29	•				50			•	
Gly Tyr 305		•		310	)				31	J				
Leu Arg			325	5				33	U	•			-	
Glu Ası		340	)				34	. c					•	
Ile As	355	5				36	U	٠.			<i>-</i>	,,,		
Leu Se 37		ı Me	t Gl	у <b>Г</b> е	u II 37	e Hi	s Ly	rs Pi	ro Gl	in Va	11 Ph 30	e Li	ys Va	l Ala
Ile Al 385	a Gly	y Al	a Pr	o Va	11 Th	ır Va	al T	no M	et A: 3!	la Ty 95	yr As	T)	nr Gl	y Tyr 400
Thr Gl			40	)5			•	4	10					,
Ala Gl	y Se	r Va	l Al	la Le	eu H	is V	al G	lu L 98		eu P	ro A	sn G	lu P	co Asn

425 420

Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe

His Thr Asn Phe Leu Val Ser Gln Leu Ile Arg Ala Gly Lys Pro Tyr

Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu 470

Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr 490

Leu

<210> 1594

<211> 497

<212> PRT

<213> Homo sapiens

<400> 1594

Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala 25

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu 40

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu 100.

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp 120

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr 130

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His 155 150

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr 170

Thr Pro Gly Phe Ser His Ser Cys Ser Met Ser Gln Asn Phe Asp Met 185 180

Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val 195 200 205

Tyr Lys Leu Ser Gly Pro Asp Asp Pro Leu His Lys Gln Pro Arg 210 215 220

Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val 225 230 235 240

Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr 245 250 255

Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro 260 265 270

Thr Val Leu Phe Val Tyr Gly Gly Pro Gln Val Gln Leu Val Asn Asn 275 280 285

Ser Phe Lys Gly Ile Lys Tyr Leu Arg Leu Asn Thr Leu Ala Ser Leu 290 295 300

Gly Tyr Ala Val Val Val Ile Asp Gly Arg Gly Ser Cys Gln Arg Gly 305 310 315

Leu Arg Phe Glu Gly Ala Leu Lys Asn Gln Met Gly Gln Val Glu Ile 325 330 335

Glu Asp Gln Val Glu Gly Leu Gln Phe Val Ala Glu Lys Tyr Gly Phe 340 345 350

Ile Asp Leu Ser Arg Val Ala Ile His Gly Trp Ser Tyr Gly Gly Phe 355 360 365

Leu Ser Leu Met Gly Leu Ile His Lys Pro Gln Val Phe Lys Val Ala 370 375 380

Ile Ala Gly Ala Pro Val Thr Val Trp Met Ala Tyr Asp Thr Gly Tyr 385 390 395 400

Thr Glu Arg Tyr Met Asp Val Pro Glu Asn Asn Gln His Gly Tyr Glu
405 410 415

Ala Gly Ser Val Ala Leu His Val Glu Lys Leu Pro Asn Glu Pro Asn 420 425 430

Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe 435

His Thr Asn Phe Leu Val Ser Gln Leu Ile Arg Ala Gly Lys Pro Tyr 450 455 460

Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu 465 470 480

Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr 485 490 495

Leu

<210> 1595 <211> 180 <212> PRT <213> Homo sapiens <400> 1595 Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu 25 Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn 40 Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser 55 Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly 70 Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro 90 85 Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His 100 Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu 120 Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Arg Leu 130 Ser Ala Ser Phe Asn Ala Ser Pro Gly Ala Ile Ser Ala Lys Thr Lys 155 Phe Ser Arg Lys Gln Ile Phe Gln Glu Leu Gln Ile Cys Pro Ser Arg 170 165 His Gly Gln Ile 180 <210> 1596 <211> 240 <212> PRT <213> Homo sapiens Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile <400> 1596 Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu 35

40

45

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser 55

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly

Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Pro 85

Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His 105 100

Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu 120 115

Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser 135

Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser 150

Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp 170

Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala

Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu 200 195

Leu Gly Glu Gly Phe Ser Asp Leu Phe Leu Thr Asp Gly Arg Ile Pro 220 215

Ala Ser Tyr Glu Thr Leu His Gly Gly Val Gln Gly Pro Gly Thr Leu 235 230

<210> 1597

<211> 447

<212> PRT

<213> Homo sapiens

<400> 1597

Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser 55

Arg G 65					70						, J <sub>.</sub>						
Thr L	eu	Pro	Ile	Arg 85	Ser	His	His	Arg	Se:	r Se 0	er i	Pro	Ser	Ser	Ser 95	Pr	0
Thr <sub>.</sub> L	eu	Glu	Arg 100	Gly	Gln	Met	Gly	Ser 105	Ar	g G	ln .	Ser	His	Asn 110	Ser	Hi	S
Gln S	Ser	Leu 115	Asn	Ser	Leu	Val	Thr 120	Ile	e Se	r S	er	Asn	His 125	Val	Pro	Gl	u
Asn I	he	Ser	Leu	Glu	Leu	Thr 135	His	Ala	a Th	r P	ro	Ala 140	Val	Glu	Val	S∈	er
Gln I 145	Leu	Leu	Ser	Met	Leu 150	His	Glr	Gl	y Gl	n T.	yr .55	Ģln	Pro	Arg	Pro	S∈ 16	er 50
Phe 1	Arg	Gly	Asn	Lys 165	Туг	Ser	Arç	, Se	r Ty 17	nr A	rg	Tyr	Ala	Lev	Glr 175	a As	вp
Met	Asp	Lys	Phe 180		Lev	Lys	: Asp	Se 18	r G: 5	Ly A	Arg	Gly	Asp	Ser 190	Glu	1 A.	la
Gly	Asp	Ser 195		туг	- Asp	Let	1 Gly 20	y Ar D	g A	sp S	Ser	Pro	11e 205	ASI	) Ar	g L	eu
Leu	Gly 210		ı Gly	/ Phe	e Se	21:	p Le	u Ph	e L	eu '	Thr	Asp 220	Gly	y Arg	g Il	e P	ro
Ala 225	Ala	. Met	. Ar	g Le	ı Cy:	s Th	r Gl	u GI	u C	ys .	Arg 235	Val	. Le	ı Gl	y Hi	s S 2	er 40
Asp	Ģlr	Cy	s Tr	р Ме 24	t' Pr 5	o Pr	o Le	u Pi	ço S 2	er 50	Pro	Ser	: Se	r As	р Ту 25	r A 5	rg
Ser	Ası	n Me	t Ph 26	e I1 0	e Pr	o Gl	y Gl	.u G:	lu E 65	he	Pro	Thi	c Gl	n Pr 27	o G1 0	n G	Sln
Gln	His	s Pr 27		s Gl	n Se	r Le	u GI .28	.u A 30	sp P	ds/	Ala	a Gl	n Pr 28	o Al 5	a As	g g	Ser
Gly	G1 <sup>2</sup>		s Ly	rs Ly	rs S∈	er Ph	ne Se 95	er T	hr 1	?he	Gl	7 Ly 30	s As O	p Se	er Pi	ro i	Asn
Asp 305		u As	p Th	ır Gl	.y As 31	sp Ti LO	ır Se	er T	hr	Ser	Se:	r Le 5	u Le	eu Se	er G	Lu !	Met 320
Ser	Se	r Va	al Pì	ne G3	ln Ai 25	rg Le	eu L	eu E	ro	Pro 330	Se	r Le	u As	sp Tl	nr T	yr 35	Ser
Glu	. Су	rs Se	er G	lu Va 40	al A	sp A	rg S	er P	Asn 345	Ser	Le	u Gl	.u A	rg A	rg L 50	ys	Gly
Pro	b L∈		ro A 55	la L	ys T	hr V	al G	ly :	ľyr	Pro	Gl	n Gl	Ly V	al A 65	la A	la	Trp
Ala		, La S 70	er T	hr H	is P	he G 3	ln A 75	sn:	Pro	Thr	Th	r As	sn C BO	ys G	ly E	ro	Pro.

Leu Gly Thr His Ser Ser Val Gln Pro Ser Ser Lys Trp Leu Pro Ala 395

Met Glu Glu Ile Pro Glu Asn Tyr Glu Glu Asp Asp Phe Asp Asn Val · 410

Leu Asn His Leu Asn Asp Gly Lys His Glu Leu Met Asp Ala Ser Glu 425

Leu Val Ala Glu Ile Asn Lys Leu Leu Gln Asp Val Arg Gln Ser 440

<210> 1598

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1598

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly

Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg 20

Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly 40

Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly 55 50

Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His 75 65

Arg Gly Pro His Gln Glu Gly Leu Gln Val His His Gln His Glu 90 85

<210> 1599

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1599

Xaa Pro Ser Trp Trp Gly Pro Arg Trp Cys Arg Ser Ser Cys Gly Val 10

Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp 20 25 30

Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu 35 40 45

Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala 50 55 60

Asn Tyr Pro Ser Leu Leu Cly Asp Gly Arg His Asp His Leu Gly 65 70 75 80

Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly 85 90 95

Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn 100 105 110

His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu 115 120 125

Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro 130 135 140

Ala Val Thr Glu Lys Thr Arg His 145 150

<210> 1600

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1600

Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly

1 5 10 15

Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met 20 25 30

Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr 35 40 45

Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met 50 55 60

Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp 65 70 75 80

Ser Arg

<210> 1601

<211> 306

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (208)
<223> Kaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
              20
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
                                          75
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Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 120 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His 170 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg .190 185 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser 220 215 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro 235 230 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys 250 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln 265 Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro 280 Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys 300 295 Glu Lys 305 <210> 1602 <211> 92 <212> PRT <213> Homo sapiens <400> 1602 Met Glu Asp Arg Leu Leu Leu Ile Leu Val Phe Pro Leu Leu Trp Phe 10 Pro Val Ala Val Phe Gln Leu Val Leu Leu Pro Phe Leu Leu Ile

25

His Ser Leu Asn Cys Leu Glu Trp Arg His Leu Phe Ser Ala Tyr Arg

Val His Ile Leu Ala Trp Leu Ala Tyr Pro Cys Phe Cys Val Ser Leu 60

Arg Val Arg His Cys Ile Glu Leu Phe Ile Gln Ile Val Leu Ser Leu

Pro Gln Cys Cys Gly Ile Gly Gly Val Pro Ile Leu

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu 5 10

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr 25

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro 40

Gly His Trp Val Glu Glu Thr Val Leu Gly Xaa Thr Arg Arg Glu Gly

Pro Gly Leu Phe Pro 65

<210> 1604

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1604

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu 10

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro 40

Gly His Trp Val Glu Glu Thr Val Leu Gly Arg Ser Arg Arg Glu Gly . 60 50

PCT/US01/11988

WO 01/77137

Pro Gly Leu Phe Pro 65

<210> 1605

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1605

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
1 5 10 15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val 20 25 30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu 35 40 45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val 50 60

Asp Arg Xaa Arg Gln Gly Phe Ser Thr Xaa Tyr Lys
65 70 75

<210> 1606

<211> 201

<212> PRT

<213> Homo sapiens

<400> 1606

Met Val Ala Met Val Glu Val Gln Leu Asp Ala Asp His Asp Tyr Pro 1 10 15

Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala 20 25 30

Val His Leu Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile

Glu Ala Val Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro 50 55 60

His Glu Arg Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr 65 70 75 80

Val Ile Gly Thr Leu Leu Phe Leu Ala Glu Val Val Leu Leu Cys Trp

> 90 85

Val Lys Phe Leu Pro Leu Lys Lys Gln Pro Gly Gln Pro Arg Pro Thr 105

Ser Lys Pro Pro Ala Ser Gly Ala Ala Ala Asn Val Ser Thr Ser Gly

Ile Thr Pro Gly Gln Ala Ala Ile Ala Ser Thr Thr Ile Met Val

Pro Phe Gly Léu Ile Phe Ile Val Phe Ala Val His Phe Tyr Arg Ser 155

Leu Val Ser His Lys Thr Asp Arg Gln Phe Gln Glu Leu Asn Glu Leu 170 165

Ala Glu Phe Ala Arg Leu Gln Asp Gln Leu Asp His Arg Gly Asp His 185

Pro Leu Thr Pro Gly Ser His Tyr Ala 200

<210> 1607

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1607

Met Ser Ala Cys Thr Ala Thr Ser Ser Trp Pro Gly Pro Ser Pro Pro 5 10

Ser Ser Ala Arg Cys Ser Ser . 20

<210> 1608

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608

Tyr Phe Ser Val Gly Gln Arg Gln Cys Trp Ile Ser Phe Thr Leu Thr .1

Ala Gln Asn Ser Ile Cys Cys Leu'Pro Cys Asn Leu Arg Thr Asn Thr 25 20

His Leu Leu Tyr Asn Pro Arg Arg Gly Asp Ile Lys Leu Thr Gln Leu

- Ala Met Leu Leu Ala Glu Ile Ser Ser Val Ala His Gln Lys Asp Gly
- Ser Phe Cys Pro Ile Val Met Cys Gly Asp Phe Asn Ser Val Pro Gly
- Ser Pro Leu Tyr Ser Phe Ile Lys Glu Gly Lys Leu Asn Tyr Glu Gly
- Leu Pro Ile Gly Lys Val Ser Gly Gln Glu Gln Ser Ser Arg Gly Gln
- Arg Ile Leu Ser Ile Pro Ile Trp Pro Pro Asn Leu Gly Ile Ser Gln 120
- Asn Cys Val Tyr Glu Val Gln Gln Val Pro Lys Val Glu Lys Thr Asp 135
- Ser Asp Leu Thr Gln Thr Gln Leu Lys Gln Thr Glu Val Leu Val Thr
- Ala Glu Lys Leu Ser Ser Asn Leu Gln His His Phe Ser Leu Ser Ser 170
- Val Tyr Ser His Tyr Phe Pro Asp Thr Gly Ile Pro Glu Val Thr Thr 185
- Cys His Ser Arg Ser Ala Ile Thr Val Asp Tyr Ile Xaa Leu Leu Cys 200
- Arg Lys Gly Xaa Cys Cys Trp Ala Pro Arg Ser 215

<210> 1609

<211> 267

<212> PRT

<213> Homo sapiens

<400> 1609

- Met Leu Ile Ala Val Gly Ile His Leu Leu Leu Met Phe Glu Val 5 ·
- Leu Val Cys Asp Arg Val Glu Arg Gly Thr His Phe Trp Leu Leu Val
- Phe Met Pro Leu Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val 35
- Trp Gly Phe Arg His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser 55
- Val Asn Ile Leu Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile 70

Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu 105 Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val 120 Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe 135 Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala . 170 Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg 185 Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala Glu Glu Thr Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe Gly 235 Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Pro 250 Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp 265 <210> 1610 <211> 123 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (92) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (93) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<222> (108)

<220> <221> SITE

<222> (117) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1610 Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Gln Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Xaa Xaa Glu Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro Xaa Arg Leu Leu Gln 110 . 100 . . . . 105 Ala His His Asn Xaa Thr Tyr Lys Gln Xaa Tyr 120 1 60 ... <210> 1611 . <211> 52 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (37) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1611 Pro Gly Leu Arg Lys Asn Arg Pro Ser Val Pro Arg Arg Ser Ser Pro Gly Arg Ile Ser Gly Leu Ser Ser Val Ala Trp Asn Pro Asp His Ser 20 Ile Ser Val Phe Xaa Leu Ala Glu Leu Thr Ser Arg Ala Gln Leu Ala 35 Val Gly Val Ser 50

<210> 1612

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1612

Met Phe Arg Arg Leu Ala Ser Val Ala Ser Lys Leu Lys Glu Phe Ile 1 5 10 15

Gly Asn Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu 20 25 30

Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe 35 40 45

Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe 50 55 60

Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr 65 70 . 75 80

Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Gln 85 90 95

Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu 100 105 110

Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro 115 120 125

<210> 1613

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1613

Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser 1 5 10 15

Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val 20 25 30

Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro 35 40 45

Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly 50 55 60

His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Gln Glu Ala 65 70 75 80

Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu Glu Phe
85 90 95

Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro 100 105

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<210> 1614
<211> 115
<212> PRT
<213> Homo sapiens
<400> 1614
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
                       . 55
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr
Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp
                                 105
Ser Thr Val
        115
<210> 1615
 <211> 182
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> '(120)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
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<222> (151) <223> Kaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (154) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1615 Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu Gly Phe Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr 75 Val Val Phe His Gly Met Leu Xaa Ala Phe Ile Tyr Leu Ala Leu Gln 90 Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn 105 100 Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr . 120 Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu 135 Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile 150 Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu 165 Gly Leu Glu Lys Phe His 180 <210> 1616 <211> 83 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (17) <223> Xaa equals any of the naturally occurring L-amino acids <220>

<221> SITE <222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1616

Ile Trp Ala Ile Asp Val Phe Ala Phe Cys Leu Ile Phe Phe Tyr Lys

Xaa Xaa Val Arg Gly Ile His Leu Phe Ile Cys Cys Thr Asp Leu Ile 25

Met Ile Leu Met Phe Glu Arg Leu His Leu Phe Ala Phe Thr Ile Cys 40

Gly Val Lys Tyr Ile Phe Cys Ser Gln Tyr Met Lys Ile Trp Ser Asn 55

Leu Asn Ser Lys Gln Thr Phe Cys Gly Cys Leu Phe Leu Tyr Trp Gln 75

Ser Ile Asn

<210> 1617

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1617

Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys

Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu 30 25

Gly Phe Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala 40

Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu 60

Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr

Val Val Phe His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln

Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn 105

Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr . 120

Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu 135

Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile 155 150

Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu 170 165

Gly Leu Glu Lys Phe His 180

<210> 1618

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1618

Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu 10

Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe

Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu

Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys 75

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp 90 85

<210> 1619 <211> 95

<212> PRT <213> Homo sapiens

<400> 1619
Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
1 5 10 15

Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe 20 25 30

Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu 35 40 45

Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser 50 55 60

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys 65 70 75 80

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp 85 90 95

<210> 1620

<211> 706

<212> PRT

<213> Homo sapiens

<400>·.1620

Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
1 5 10 15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser 20 25 30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro
35 40 45

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly 50 60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser 65 70 75 80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile 85 90 95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro 115 120 125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val 130 135 140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln 145 . 150 . 155 . 160

Leu	Gln	Ile	Ala	Lys 165	ГЛа	Leu	Ser	Lys	Gly 170	Ile	Arg	Pro	Val	Leu 175	Gly
Gln	Pro	Glu	Glu 180	Val <sub>.</sub>	Gln	Phe	Arg	Arg 185	Leu	Gln	Ala	Leu	Met 190	Met	Glu
Суз	Trp	Asp 195	Thr	rĀz	Pro	Glu	Lys 200	Arg	Pro	Leu	Ala	Leu 205	Ser	Val	Val
Ser	Gln 210	Met	Lys	Asp	Pro	Thr 215	Phe	Ala	Thr	Phe	Met 220	Tyr	Glu	Leu	Cys
Cys 225	Gly	Lys	Gln	Thr	Ala 230	Phe	Phe	Ser	Ser	Gln 235	Gly	Gln	Glu	Tyr	Thr 240
Val	Val	Phe	Trp	Asp 245	Gly	Lys	Glu	Glu	Ser 250	Arg	Asn	Tyr	Thr	Val 255	Val
Asn	Thr	Glu	Lys 260	Gly	Leu	Met	Glu	Val 265	Gln	Arg	Met	Cys	Cys 270	Pro	Gly
Met	Lys	Val 275	Ser	Суз	Gln	Leu	Gln 280	Val	Gln	Arg	Ser	Leu 285	Trp	Thr	Ala
Thr	Glu 290	Asp	Gln	Lys	Ile	Tyr 295	Ile	Tyr	Thr	Leu	Lys 300	Gly	Met	Cys	Pro
Leu 305		Thr	Pro	Gln	Gln 310	Ala	Leu	Asp	Thr	Pro 315	Ala	Val	Val	Thr	Cys 320
Phe	Leu	Ala	Val	Pro 325	Val	Ile	Lys	Lys	Asn 330	Ser	Tyr	Leu	Val	Leu 335	Ala
٠		•	340					345		j.			350	Gly	
Pro	Lys	Asp 355		Суз	Ser	Tyr	Leu 360	Cys	Ser	His	Thr	Ala 365	Asn	Arg	Ser
Lys	Phe 370		: Ile	Ala	Asp	Glu 375		Ala	Arg	Gln	. Asn 380	Pro	Tyr	Pro	Val
385	ı				390					395			•		Asn 400
				405	;			,	410				٠.	415	
			420	)				425	j		•		. 430	•	Cys
		435	5				440	)		•		445			Lys
	450	)				455	5				460	)			Ala
Arg	туј	c Phe	е Су:	s Gly	/ Val	Pro	Ser	Pro	Let	ı Arg	J ASI	Met	Phe	Pro	Val

Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro. 490 Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser 505 Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp Tyr Cys. Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala 540 Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Val Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly. 570 565 Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu 585 Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp 600 Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu 615 Glu Lys Asp Ser Glu Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys 630 Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val 645 Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp 660 Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe 680 675 Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys 695 . 690 Arg Arg 705 <210> 1621 <211> 706 <212> PRT-<213> Homo sapiens <400> 1621 Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser . 25

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro

5	40	45
-	•	

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro 120

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val 135

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln . 150

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly 165

Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu 185

Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val 205

Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys 215 220

Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr 235

Val Val Phe Trp Asp Gly Lys Glu Glu Ser Arg Asn Tyr Thr Val Val 250

Asn Thr Glu Lys Gly Leu Met Glu Val Gln Arg Met Cys Cys Pro Gly 265

Met Lys Val Ser Cys Gln Leu Gln Val Gln Arg Ser Leu Trp Thr Ala 280

Thr Glu Asp Gln Lys Ile Tyr Ile Tyr Thr Leu Lys Gly Met Cys Pro

Leu Asn Thr Pro Gln Gln Ala Leu Asp Thr Pro Ala Val Val Thr Cys 315

Phe Leu Ala Val Pro Val Ile Lys Lys Asn Ser Tyr Leu Val Leu Ala 325

Gly Leu Ala Asp Gly Leu Val Ala Val Phe Pro Val Val Arg Gly Thr 345

Pro Lys Asp Ser Cys Ser Tyr Leu Cys Ser His Thr Ala Asn Arg Ser 1008

360 355

Lys Phe Ser Ile Ala Asp Glu Asp Ala Arg Gln Asn Pro Tyr Pro Val 375

Lys Ala Met Glu Val Val Asn Ser Gly Ser Glu Val Trp Tyr Ser Asn 390

Gly Pro Gly Leu Leu Val Ile Asp Cys Ala Ser Leu Glu Ile Cys Arg 410

Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys 425

Ser Ser Glu Gly Arg Gly Glu Glu Val Val Trp Cys Leu Asp Asp Lys 440

Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala 455

Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu Arg Asp Met Phe Pro Val 475 470-

Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro 490 485

Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser 505

Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp 520

Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala 535

Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Val 555 <sup>^</sup> 545

Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly 570

Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu 580

Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp

Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu

Glu Lys Asp Ser Gly Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys 635

Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val 650 ·

Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp 665 . .

Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe 1009

675 680 685

Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys 690 700

Arg Arg 705

<210> 1622

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

.<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<22.0>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1622

Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr 1 5 10 15

Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp

20 25 30.

Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
35 40 45

Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly 50 55 60

Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
65 70 75 80

Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe 85 90 95

Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro 100 105 110

Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala 115 120 125

Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys 130 135 140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr 145 150 155 160

Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His 165 170 175

Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe 180 185 190

Xaa Phe Asn Leu 195

<210> 1623

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1623

Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu 1 5 10 15

Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr 20 25 30

Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly 35 40 45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg
50 55 60

Phe Gln Pro Gln Trp 65

<210> 1624

<211> 199

<212> PRT

<213> Homo sapiens

<400> 1624

Phe Ser Gly Val Cys Phe Ala Gly Ile Ala Gly Ser Met Ala Thr Leu

Leu His Asp Ala Val Met Asn Pro Ala Glu Val Val Lys Gln Arg Leu

Gln Met Tyr Asn Ser Gln His Arg Ser Ala Ile Ser Cys Ile Arg Thr 40

Val Trp Arg Thr Glu Gly Leu Gly Ala Phe Tyr Arg Ser Tyr Thr Thr 55

Gln Leu Thr Met Asn Ile Pro Phe Gln Ser Ile His Phe Ile Thr Tyr

Glu Phe Leu Gln Glu Gln Val Asn Pro His Arg Thr Tyr Asn Pro Gln 85

Ser His Ile Ile Ser Gly Gly Leu Ala Gly Ala Leu Ala Ala Ala Ala

Thr Thr Pro Leu Asp Val Cys Lys Thr Leu Leu Asn Thr Gln Glu Asn 115

Val Ala Leu Ser Leu Ala Asn Ile Ser Gly Arg Leu Ser Gly Met Ala

Asn Ala Phe Arg Thr Val Tyr Gln Leu Asn Gly Leu Ala Gly Tyr Phe . 155

Lys Gly Ile Gln Ala Arg Val Ile Tyr Gln Met Pro Ser Thr Ala Ile 170

Ser Trp Ser Val Tyr Glu Phe Phe Lys Tyr Phe Leu Thr Lys Arg Gln . 185

Leu Glu Asn Arg Ala Pro Tyr 195

· <210> 1625

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1625

Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu

Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr 25

Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly

40

45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg

Phe Gln Pro Gln Trp 65

<210> 1626

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

·<400> 1626

Met Ala Arg Val Leu Gln Leu Glu Pro Gln Thr Ser Ala Cys Leu Leu
1 5 10 15

Ser Leu Leu Cys Pro Ala Leu Gln Glu Pro Gly Pro Ala Ser Gly Thr 20 25 30

Glu Ser Ala His Phe Leu Arg Ala His Ser Arg Cys Gly Pro Gly Leu 35 40 45

Pro Pro Pro His Val Ser Ser Pro Gln Pro Thr Pro Pro Gly Pro Glu 50 60

Ala Lys Val Arg Gly Cys Met Gly Ala Arg Trp Trp Leu Gly Arg Ala 65 70 75 80

Pro Gly Val Xaa Gly Val Phe Arg Asp Thr Thr 85 90

<210> 1627

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1627

Ala His Cys His Ile Ser Arg Ser His Cys Pro Thr Leu Arg Xaa Lys

1 5 10 15

Asp Thr Cys Gly Gly Trp Glu Pro Thr Ser Ala Leu Gly Ser Ser Thr 20 25 30

Leu Ser His Val Pro His Xaa Leu Leu Glu Arg Arg Asp Leu Trp Arg 35 40 45

Arg Glu Ala Glu Ala Arg Lys Gln Ser Gln Pro Asp Pro Ala Met Pro 50 55 60

Pro Gly His Thr Arg Met Pro Glu Asn Gln Arg Leu Glu Thr Leu Thr 65 70 75 80

Lys Leu Leu Gln Ser Gln Ser Gln Leu Leu Arg Glu Leu Val Leu Leu 85 90 95

Pro Ala Gly Ala Asp Ser Leu Arg Ala Gln Ser His Arg Ala Glu Leu 100 105 110

Asp Arg Lys Leu Val Gln Val Glu Glu Ala Ile Lys Ile Phe Ser Arg 115 120 125

Pro Lys Val Phe Val Lys Met Asp Asp 130 135

<210> 1628

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1628

Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu
1 5 10 15

Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu 20 25 30

Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu 35 40 45

Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala 50 55 60

Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys 65 70 75 80

Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro 85 90 95

<210> 1629

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

PCT/US01/11988 WO 01/77137

<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (163) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1629 Val Gln Leu Ser Val Pro Ala Gly Met Leu His Ser Leu Cys Val Gln Leu Phe Ile Thr Ala Gly Ser Leu Cys Ala Thr His Ser Gln Cys Leu 30 Ser Lys Ala Asp Gly Ala Arg Pro Ser Ile Leu Tyr Leu Thr Cys Pro Leu His Ser Pro Ile Lys Asn Gly Pro Gln Ile Arg Val Glu Glu Ala 55 Asp Val Ser Ser Ser Glu Thr Ala Leu Pro Arg Ser Arg Arg Asp Gly Xaa Ala Lys Pro Gly Cys Glu Thr Gly Cys Cys Met Trp Leu Gln Ala 90 85 Leu Asn Ile Val Thr Trp Arg Leu Pro Gln His Ile Val Arg Ser Lys

105

Pro Gln Glu Pro Glu Gln Gln Asn Ser Cys His Pro Gln Lys Pro Ala 120 •

Pro Gly Thr Ala Val Gln Ile Gly Arg Arg Ser Ser Gln Gln Trp Leu 135

Leu Arg Thr Pro Leu Thr Gln Gln Arg Ser Pro Asp Ala Cys Arg Ser

Pro Glu Xaa Ala Leu Ser Ala Leu Asp Met Ala Gly Asp Thr GIn Val 165

Trp Pro Ser Gln Ser Leu Phe Ala Lys Leu Lys Val Lys 180 ^ 185

<210> 1630 <211> 95

<212> PRT

<213> Homo sapiens

<400> 1630

Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu

Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu 25

Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu 35

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Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala
          55 60
Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys
              70 75
Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro
                                   90
 <210> 1631
 <211> 303
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (245)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (250)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (252)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (255)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (256)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
<221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
. <221> SITE
 <222> (287)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <221> SITE
 <222> (301)
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<223> Xaa equals any of the naturally occurring L-amino acids <400> 1631 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu 5 · Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly Thr Val Gly Leu Leu Glu His Ser Phe Glu Ile Asp Asp Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile . 105 Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val 120 Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser . 150 Val Val Thr His Pro Gly Gly Cys Arg Gly His Glu Val Glu Asp Val 165 Asp Leu Glu Leu Phe Asn Thr Ser Val Gln Leu Gln Pro Pro Thr Thr 185 Ala Pro Gly Pro Glu Thr Ala Ala Phe Ile Glu Arg Leu Glu Met Glu -200 Gln Ala Gln Lys Ala Lys Asn Pro Gln Glu Gln Lys Ser Phe Phe Xaa 215 Lys Tyr Trp Met Tyr Ile Ile Pro Val Val Leu Phe Leu Met Met Ser 230 Gly Ala Pro Asp Xaa Gly Gly Gln Gly Xaa Gly Xaa Gly Kaa Xaa Xaa Gly Val Val Ala Gly Glu Gly Pro Ser Leu Ser Ala Phe Pro Ser . 265 260 Cys Lys Thr Gln Gly Gly Phe Pro Phe Cys Leu Glu Phe Pro Xaa Cys 280 Ser Ser Ser Pro Ser Pro Lys Lys Gly Phe Cys Leu Xaa Pro Leu 300 295

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<210> 1632
<211> 173
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
·<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE ·
<222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1632
 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu
 1 5
                               10
 Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
                               25
 Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
                                    45
 Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
                       55
 Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
                   Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
                                  90
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Arg Leu Xaa Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile 100 105 110

Pro Arg Arg Pro Gly Xaa Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val 115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser Xaa Leu Ser Asp 130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Arg Val 145 150 155 160

Gly Gly Asp Xaa Pro Trp Gly Cys Arg Xaa His Xaa Xaa 165 170

<210> 1633

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1633

Met Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu 1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala 20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala 35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp 50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg 100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys 115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser 145 150 155

<210> 1634

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1634 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala 30 25 Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly Thr Val Gly Leu Leu Clu His Ser Phe Glu Ile Asp Asp 55 Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly . 90 Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg . 105 Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys 120 Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser 135 Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser 150 <210> 1635 <211> 115 <212> PRT <213> Homo sapiens <400> 1635 Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu 10 Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro 40 Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser 55 Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser 70 Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly 90 Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys 105 . 100

Ile Lys Leu 115

<210> 1636

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1636

Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu
1 5 10 15

Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro 35 40 45

Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser 50 60

Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser 65 70 75 80

Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly 85 90 95

Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys 100 105 110

Ile Lys Leu 115

<210> 1637

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1637

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys

1 5 10 15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val 20 25 30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe 50 55 60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser 65 70 75 80

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser 35 40 45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe 50 55 60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser 65 70 75 80

<210> 1639 <211> 81 <212> PRT <213> Homo sapiens

Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro 20 25 30

Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu 35 40 45

Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg 50 55 60

Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr 65 70 75 80

Ser

<210> 1640 <211> 81 <212> PRT <213> Homo sapiens

<400> .1640 Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro 10 Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro 25 Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu 40 Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg 60 Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr 75 70 Ser <210> 1641 <211> 53 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids Met Val Phe Leu Ser His Leu Phe Gly Thr Lys Arg Leu Phe Leu Leu 5 Leu Ala Leu Ile Trp Ala Ser Trp His Phe Ser Tyr Met Pro Ala Asp . 30 Ala Trp Val Asp Pro Gly Ile Pro Asp Arg Tyr Leu Gln Ala Tyr Leu , 35 <sup>-</sup> 40 Ser Ile Val Xaa Pro 50 <210> 1642 <211>-61 <212> PRT <213> Homo sapiens <400> 1642 Met His Val Val His Trp Ser Arg Leu Phe Leu Leu Lys Pro Pro Tyr 1 . 5 . Ser Val His Ala Thr Phe Ile Pro Thr Gly Phe Leu Ala Arg Phe Arg

25

Thr Pro Gly Ile Leu Asp Ser Cys Phe Phe His Ser Trp Pro Leu Leu

20

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35

Leu Ser Tyr Phe Leu Ser Pro Gln Ser Pro Leu Leu Lys 55 .

<210> 1643

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1643

Met Leu Thr Ala Val Lys Met Phe Arg Leu Ser Ala Val Thr Leu Cys 10

Ala Phe Ser Leu Thr Leu His Ser Gly Val Gln Leu Cys Glu Gln Leu 25

Val Leu Arg Ile Ala Leu Phe Gln Asn Cys Arg Ala Glu Asp Gly Phe 35 40

Gly Leu Arg Val Cys Trp Arg Arg Leu Met Arg Ser Phe Cys Arg Ser 50 55

Ala Lys Phe Trp Gly Ser Asn Asp Leu Arg Thr Trp Gly Ser Arg Phe 70

Leu Trp Lys Asp Cys Thr 85

<210> 1644

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1644

Met Leu Thr Ala Val Lys Met Phe Arg Leu Ser Ala Val Thr Leu Cys 1 5 10

Ala Phe Ser Leu Thr Leu His Ser Gly Val Gln Leu Cys Glu Gln Leu 20 25 30

Val Leu Arg Ile Ala Leu Phe Gln Asn Cys Arg Ala Glu Asp Gly Phe 35 40 45

Gly Leu Arg Val Cys Trp Arg Arg Leu Met Arg Ser Phe Cys Arg Ser 55 60

Ala Lys Phe Trp Gly Ser Asn Asp Leu Arg Thr Trp Gly Ser Arg Phe 75 80 .

Leu Trp Lys Asp Cys Thr . 85

PCT/US01/11988 WO 01/77137

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1645

Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu 10

Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Phe Val Gln

Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg 40

Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu 55

Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala . 75

Thr Val Glu Arg Phe Gly Lys Glu His Ala Ile Ile Ile Leu Asn His 90 85

Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe 105 110 100

Gly Met Leu Xaa Ser Ser Lys Gly Pro Arg 120 . 115

<210> 1646

<211> 121

<212> PRT

<213> Homo sapiens

Gly Asp Phe Leu Trp Lys Thr Ser Arg Val Asp Glu Lys Glu Ala Ala

Gln Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile - 25 · 20

Tyr Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg 40

Arg Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu . 55

Ser Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro 75 80 70

Leu Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly . 90 85

Val Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr 100 105 110

Gly Asn Gln Glu Phe Lys Lys Lys Glu 115 120

<210> 1647

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1647

Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu 1 5 10 15

Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Xaa Val Gln
20 25 30

Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg 35 40 45

Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu 50 55 60

Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala 65 70 75 80

Thr Val Glu Arg Phe Gly Lys Glu His Ala Val Ile Ile Leu Asn His 85 90 95

Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe 100 105 110

Gly Val Leu Gly Ser Ser Lys Val Leu Ala Lys Lys Glu Leu Leu Tyr 115 120 125

Val Pro Leu Ile Gly Trp Thr Trp Tyr Phe Leu Glu Ile Val Phe Cys 130 135 140

Lys Arg Lys Trp Glu Glu Asp Arg Asp Thr Val Val Glu Gly Leu Arg 145 150 155 160

Arg Leu Ser Asp Tyr Pro Glu Tyr Met Trp Phe Leu Leu Tyr Cys Glu 165 170 175

Gly Thr Arg Phe Thr Glu Thr Lys His Arg Val Ser Met Glu Val Ala 180 185 190

Ala Ala Lys Gly Leu Pro Val Leu Lys Tyr His Leu Leu Pro Arg Thr 195 200 205

Lys Gly Phe Thr Thr Ala Val Lys Cys Leu Arg Gly Thr Val Ala Ala . 210 215 220

Val Tyr Asp Val Thr Leu Asn Phe Arg Gly Asn Lys Asn Pro Ser Leu 230 235 240 Leu Gly Ile Leu Tyr Gly Lys Lys Tyr Glu Ala Asp Met Cys Val Arg Arg Phe Pro Leu Glu Asp Ile Pro Leu Asp Glu Lys Glu Ala Ala Gln 265 Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile Tyr 280 Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg Arg 295 Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu Ser 315 Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro Leu 325 330 Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly Val . 340 Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr Gly 365 Asn Gln Glu Phe Lys Lys Glu 375 370 <210> 1648 <211> 164 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (76) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (112) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (146) <223> Xaa equals any of the naturally occurring L-amino acids Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro Asp Leu Leu Thr Leu Leu Phe Leu Phe Leu Ala His Gly Val 25

Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe 35 40 45

Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala 50 55 60

Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp 65 70 75 80

Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln 85 90 95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa 100 105 110

Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg 115 120 125

His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr 130 135 140

Leu Ala Ala Leu

<210> 1649

<211> 186 ·

<212> PRT

<213> Homo sapiens

<400> 1649

Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro

1 5 10 15

Asp Leu Leu Thr Leu Leu Phe Leu Phe Leu Ala His Gly Val 20 25 30

Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe 35 40 45

Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala 50 60

Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Met Arg Leu Cys Trp 65 70 75 80

Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln 85 90 95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Leu 100 105 110

Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg 115 120 125

His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr 1028

140 135 130 Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro 155 150 Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp 175 170 Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu . . 180 <210> 1650 <211> 206 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (200) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1650 Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu 10 Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly . 20 ' Pro Asp Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn 35 40 Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser 55 Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro 70 Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln 90 85 Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp 105 Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr . . 120 115 Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His . 135 Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala 145 Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln

Asp Tyr Gln Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro

180

170

Pro Arg Gly Trp Asp His Thr Xaa Pro Gly His Arg Asp Phe 195 200 205

<210> 1651

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1651

His Phe Ser Lys Gly Lys Gln Gln Asn Lys Trp Glu Lys Asp Asn Gly
1 5 10 15

Pro His Phe Thr Tyr Phe Asn Thr Ile Leu Thr Ile Phe Ser Ser Thr 20 25 30

Asn Ile Ser Pro Ile Asn Lys Tyr Lys Arg Gly Gly Gly Ser Ile Trp 35 40 45

Gly Ile Leu Xaa Phe Tyr Val Leu Arg Lys Gln Lys Lys Leu His Tyr 50 60

Phe Cys Lys Val Phe Ile Glu Ser Arg Ile Ile Val His Gln Ala Ile 65 70 75 80

Val Asn Met Thr Trp Ser Tyr Gly Val Glu Leu Arg Lys Asn Lys Val 85 90 95

Gly Ser Tyr Ser Ile Phe Tyr Phe Ala Lys Phe 100 105

<210> 1652

<211> 464

<212> PRT

<213> Homo sapiens

<400> 1652

Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu 1 5 15

Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly 20 25 30

Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn 35 40 45

Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser 50 60

Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro 65 70 75 80

Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp 105 Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His 140 Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala 155 Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln 170 Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro 185 Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe Glu Thr 200 Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp Trp Ser 215 Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln Lys Arg 230 Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg Thr Cys 245 Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr Ala Ala 260 Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala Thr Lys . 275 280 Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser Cys Lys 290 Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp Leu Pro 315 Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp Ala Ser 345 Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg Tyr Cys . · 355 Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala Gln His 375 380 Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys Gly Ala 4.00 395

Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu His Tyr
405 410 415

Lys Val Asp Val Leu Pro Trp Ile Ile Cys Lys Gly Asp Trp Ser Arg 420 425 430

Tyr Asn Glu Ala Arg Pro Pro Asn Asn Gly Gln Lys Cys Thr Glu Ser

Pro Ser Asp Glu Asp Tyr Ile Lys Gln Phe Gln Glu Ala Arg Glu Tyr 450 455 460

<210> 1653

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1653

Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
1 5 10 15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr 20 25 30

Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met 35 40 45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile 50 55 60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gln 65 70 75 80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala 85 90 95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
100 105 110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu 115 120 125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile 130 135 140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro 145 150 155

<210> 1654

<211> 106

<212> PRT '

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1654

Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln 1 5 15

Pro Pro Pro Tyr His Glu Leu Pro His Kaa His Gly Gln Ser Gln Arg 20 25 30

Val Leu Cys Gly Cys Tyr Val Ala His Cys Gly Ala Arg Leu Gly Arg 35 40 45

Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser 50 55 60

Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp Cys
65 70 75 80

Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu 85 90 95

Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe 100 105

<210> 1655

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1655

Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
1 5 10 15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr 20 25 30

Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
35 40 45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile 50 55 60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gln 65 70 75 80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala 85 90 95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly 100 105 110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu 115 120 125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile

130 135 140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro 145 150 155

<210> 1656

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1656

Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu

1 5 10 15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Gly Lys  $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$ 

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg 35 40 45

Val Ser Val Gly Leu Leu Leu Val Lys Arg Phe Leu Glu Gly Val Ile 50 55 60

Tyr Glu 65

<210> 1657

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1657

Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu 1 5 10 15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Lys
20 25 30

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg
35 40 45

Val Ser Val Gly Leu Leu Leu Val Lys Ser Val Gln Val Lys Leu Gly 50 55 60

Asp Ser Trp Asp Val Lys Leu Gly Ala Leu Gly Gly Asn Thr Gln Glu 65 70 75 80

Val Thr Leu Gln Pro Gly Glu Tyr Ile Thr Lys Val Phe Val Ala Phe
85 90 95

Gln Ala Phe Leu Arg Gly Met Val Met Tyr Thr Ser Lys Asp Arg Tyr 100 105 110

Phe Tyr Phe Gly Lys Leu Asp Gly Gln Ile Ser Ser Ala Tyr Pro Ser 115 120 125

Gln Glu Gly Gln Val Leu Val Gly Ile Tyr Gly Gln Tyr Gln Leu Leu 130 135 140

Gly Ile Lys Ser Ile Gly Phe Glu Trp Asn Tyr Pro Leu Glu Glu Pro 145 150 155 160

Thr Thr Glu Pro Pro Val Asn Leu Thr Tyr Ser Ala Asn Ser Pro Val
165 170 175

Gly Arg

<210> 1658

<211> 112

<212> PRT

.<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

..<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1658

Met Thr Phe Cys Leu Phe Val Leu Phe Cys Leu Xaa Trp Ser Leu Ala 1 5 10 15

Leu Leu Pro Arg Val Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn 20 25 30

Leu His Leu Pro Gly Ser Gly Gly Phe Ser Cys Leu Ser Leu Leu Ser 35 40 45

Ser Trp Asp Xaa Arg His Ala Pro Pro Cys Pro Asp Asn Phe Cys Xaa 50 55 60

Phe Ser Xaa Xaa Gly Val Ser Leu Cys Trp Gln Ala Gly Leu Glu His 65 70 75 80

Leu Thr Arg Gly Pro Pro Ala Ser Ala Ser Gln Ser Thr Gly Ile Thr 85 90 95

Gly Val Ser His Pro Ala Trp Pro Arg Met Thr Phe Lys Arg Ser Asn 100 105 , 110

<210> 1659

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1659

Met Thr Thr Ala Ser Ser Leu Ile Ser Pro Phe Phe Pro Leu Pro Pro 1 5 10 15

Pro Ala His Phe Ser Gln Cys Arg Met Thr Phe Cys Leu Phe Val Leu 20 25 30

Phe Cys Leu Arg Trp Ser Leu Ala Leu Leu Pro Arg Val Glu Cys Ser 35 40 45

Gly Ala Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Gly 50 55 60

Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro 65 70 75 80

Pro Cys Pro Asp Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Leu 85 90 95

Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Val Val His Pro Pro 100 105 110

Arg Pro Pro Lys Ala Leu Gly Leu Gln Ala 115 120

<210> 1660

<211> 65

. <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660

Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu 1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr 20 25 30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys 35 40 45

Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser 50 55 60

Leu 65

<210> 1661

<211> 299

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1661

Gly Gly Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly
1 5 10 15

Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly 20 25 30

Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly 35 40 45

Thr Ser Gly Ser Ala Asn Asp Ser Gln His Asp Pro Gly Lys Met Phe 50 55 60

Ile Gly Gly Leu Ser Trp Gln Thr Ser Pro Asp Ser Leu Arg Asp Tyr 65 70 75 80

Phe Ser Lys Phe Gly Glu Ile Arg Glu Cys Met Val Met Arg Asp Pro 85 90 95

Thr Thr Lys Arg Ser Arg Gly Phe Gly Phe Val Thr Phe Ala Asp Pro . 100 105 110

Ala Ser Val Asp Lys Val Leu Gly Gln Pro His His Glu Leu Asp Ser 115 120 125

Lys Thr Ile Asp Pro Lys Val Ala Phe Pro Arg Arg Ala Gln Pro Lys 130 135 140

Met Val Thr Arg Thr Lys Lys Ile Phe Val Gly Gly Leu Ser Ala Asn 145 150 155 160

Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa Phe Xaa Lys Val 165 170 175

Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly 180 185 190

Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys

Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys 210 215 220

Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala 225 230 235 240

Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met 245 250 255

Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala 260 265 270

Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu 275 280 285

Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu 290 295

<210> 1662

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1662

Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu 1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr 20 25 30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
35 40 45

Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile 50 55 60

Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu 65 70 75 80

Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser 85 90 95

Gly

<210> 1663

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1663

Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr
1 5 10 15

Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe 20 25 30

Leu Pro Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro
35 40 45

Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys 50 55 60

Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln 65 70 75 - 80

Asn Pro Ser Met Pro Arg

.<210> 1664

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE .

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1664

Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr

Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe 20 25 30

Leu Pro Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro 35 40 45

Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys
50 55 60

Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln 65 70 75 80

Asn Pro Ser Met Pro Arg 85

<210> 1665

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1665

Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser 1 5 10 15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe 20 25 30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly 35 40 45

Leu

<210> 1666

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1666

Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser 1 5 10 15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe 20 25 30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
35 40 45

Leu

<210> 1667

<211> 142

<212> PRT

<213> Homo sapiens

`<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

. <220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1667

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser`Arg Leu Val Lys
1 5 10 15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val 20 25 30

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val 50 55 60

His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln 65 70 75 80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn 85 90 95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Arg Xaa Gly Cys Glu Ser 100 105 110

Ser Ala Trp Met Gln Pro Gly Gly Ser His Arg Ala Ala Phe Thr Gly 115 120 125

Leu Ala Leu Pro Trp Ala Gly Gly Arg Pro His Pro Lys Arg 130 135 140

<210> 1668

<211> 110 .

<212> PRT

<213> Homo sapiens

<400> 1668

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys

1 5 10 15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly 35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val 50 55 . 60

His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Gln 65 70 75 80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Gln Phe Pro His Leu His Asn 85 90 95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Gln Glu Arg Leu 100 105 110 <210> 1669 <211> 159 <212> PRT

<213> Homo sapiens

<400> 1669

Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu 20 25 30

Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln 35 40 45

Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr 50 55 60

Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly 65 70 75 80

Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg 85 90 95

Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln 100 105 110

Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln 115 120 125

Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe 130 135 140

Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu 145 150 155

<210> 1670

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1670

Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Pro Val Leu 1 5 10 15

Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr 20 25 30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe 35 40

Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser 50 60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro 65 70 75 80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser 85 90 95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile 100 105 110

<210> 1671 <211> 382 <212> PRT

<213> Homo sapiens

<400> 1671

Gly Pro Glu Arg Gly Arg Tyr Tyr Pro Lys Ser His Lys Asn Val Asp 1 5 10

Leu Asn Asp Val Leu Val Pro Lys Pro Phe Ser Gln Phe Trp Gln Pro
20 25 30

Leu Leu Arg Gly Leu His Ser Gln Asn Phe Thr Gln Ala Leu Leu Glu 35 40 45

Arg Met Leu Ser Glu Leu Pro Ala Leu Gly Ile Ser Gly Ile Arg Pro 50 55 60

Thr Tyr Ile Leu Arg Trp Thr Val Glu Leu Ile Val Ala Asn Thr Lys 65 70 75 80

Thr Gly Arg Asn Ala Arg Arg Phe Ser Ala Gly Gln Trp Glu Ala Arg 85 90 95

Arg Gly Trp Arg Leu Phe Asn Cys Ser Ala Ser Leu Asp Trp Pro Arg 100 105 110

Met Val Glu Ser Cys Leu Gly Ser Pro Cys Trp Ala Ser Pro Gln Leu 115 120 125

Leu Arg Ile Ile Phe Lys Ala Met Gly Gln Gly Leu Pro Asp Glu Glu 130 135 140

Gln Glu Lys Leu Leu Arg Ile Cys Ser Ile Tyr Thr Gln Ser Gly Glu 145 150 155 160

Asn Ser Leu Val Gln Glu Gly Ser Glu Ala Ser Pro Ile Gly Lys Ser 165 170 175

Pro Tyr Thr Leu Asp Ser Leu Tyr Trp Ser Val Lys Pro Ala Ser Ser 180 185 190

Ser Phe Gly Ser Glu Ala Lys Ala Gln Gln Gln Glu Glu Gln Gly Ser 195 200 205

Val Asn Asp Val Lys Glu Glu Glu Lys Glu Glu Lys Glu Val Leu Pro 210 . 215 220

Asp Gln Val Glu Glu Glu Glu Glu Asn Asp Gln Glu Glu Glu Glu 225 230 235 240

Glu Asp Glu Asp Glu Asp Glu Glu Glu Asp Arg Met Glu Val 1043 245 250 255

Gly Pro Phe Ser Thr Gly Gln Glu Ser Pro Thr Ala Glu Asn Ala Arg 260 265 270

Leu Leu Ala Gln Lys Arg Gly Ala Leu Gln Gly Ser Ala Trp Gln Val 275 280 285

Ser Ser Glu Asp Val Arg Trp Asp Thr Phe Pro Leu Gly Arg Met Pro 290 295 300

Gly Gln Thr Glu Asp Pro Ala Glu Leu Met Leu Glu Asn Tyr Asp Thr 305 310 315 320

Met Tyr Leu Leu Asp Gln Pro Val Leu Glu Gln Arg Leu Glu Pro Ser 325 330 335

Thr Cys Lys Thr Asp Thr Leu Gly Leu Ser Cys Gly Val Gly Ser Gly 340 345 350

Asn Cys Ser Asn Ser Ser Ser Ser Asn Phe Glu Gly Leu Leu Trp Ser 355 360 365

Gln Gly Gln Leu His Gly Leu Lys Thr Gly Leu Gln Leu Phe 370 375 380

<210> 1672

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1672

Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Pro Val Leu

1 5 10 15

Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr 20 25 30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe 35 40 45.

Ser His Leu Lys Gln Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser 50 60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro 65 70 75 80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser 85 90 95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile 100 105 110

<210> 1673

<211> 156

<212> PRT

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<213> Homo sapiens
<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1673
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
 1
Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
                               25
Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
                           40 45
Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
                        55
Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Xaa Tyr Leu Ala Asp
Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
Ala Xaa Asn Phe Gly Ser Thr Leu Met Xaa Lys Lys Ser Asp Pro Glu
                          120
Gly Pro Ala Leu Leu Xaa Pro Glu Ser Glu Leu Phe Ile Arg Ile Gly
            135
Arg Leu Ala Ser Phe Ser Ser Ser Leu Leu Gln His
         150
                                     155
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<210> 1674 <211> 167 <212> PRT

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1674

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe.

1 10 . 15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe 20 25 30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala 35 40 45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val 50 55 60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro 65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp 85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu 100 105 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Ser Asp Pro Glu 115 120 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser 130 135 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu 145 150 155 160

Pro Glu Gly Pro Ala Val Pro 165

<210> 1675

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1675

Met Phe Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe 1 5 10 15

Thr Arg Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Ala 20 25 30

Leu Phe Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu 35 40 45

Gly Asp Arg Leu Gly Trp Arg Asp Lys Ala. Thr Trp Leu Phe Ser Trp 50 55.

Leu Asp Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser

65 70 75 80

Arg Pro Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu 85 90 95

Leu Pro Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val

Ala Ser Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu 115 120 125

Thr Met Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu 130 135 140

Gly Val Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr Arg 145 150 155 160

Gln Leu Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala 165 170 175

Glu Glu Ala Phe Lys Val Phe Ala Ser Ser Leu Gly Thr Leu Ser Ala 180 185 190

Met Leu Lys Lys Arg Lys Gly Val Trp Arg Leu Lys 195 200

<210> 1676

<211> 412

<212> PRT

<213> Homo sapiens

<400> 1676

Met Gly Val Trp Thr Gly Arg Leu Gly Gly Trp Ala Gln Val Met Phe

1 5 10 15

Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe Thr Arg 20 25 30

Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Ala Leu Phe 35 40 45

Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu Gly Asp 50 55 60

Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp Leu Asp 65 70 75 80

Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser Arg Pro 85 90 95

Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu Leu Pro 100 105 110

Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val Ala Ser 115 120 125

Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu Thr Met 130 135 140

Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu Gly Val 145 150 155 160

Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala Glu Glu 180 185 190

Ala Phe Lys Val Leu Arg Ala Ala Trp Asp Ile Val Ser Asn Ala Glu 195 200 205

Lys Arg Lys Glu Tyr Glu Met Lys Arg Met Ala Glu Asn Glu Leu Ser 210 215 220

Arg Ser Val Asn Glu Phe Leu Ser Lys Leu Gln Asp Asp Leu Lys Glu 225 230 235 240

Ala Met Asn Thr Met Met Cys Ser Arg Cys Gln Gly Lys His Arg Arg 245 250 255

Phe Glu Met Asp Arg Glu Pro Lys Ser Ala Arg Tyr Cys Ala Glu Cys 260 265 270

Asn Arg Leu His Pro Ala Glu Glu Gly Asp Phe Trp Ala Glu Ser Ser 275 280 285

Met Leu Gly Leu Lys Ile Thr Tyr Phe Ala Leu Met Asp Gly Lys Val 290 295 300

Tyr Asp Ile Thr Gln Trp Ala Gly Cys Gln Arg Val Gly Ile Ser Pro 305 310 315 320

Asp Thr His Arg Val Pro Tyr His Ile Ser Phe Gly Ser Arg Ile Pro 325 330 335

Gly Thr Arg Gly Arg Gln Arg Ala Thr Pro Asp Ala Pro Pro Ala Asp 340 345 350

Leu Gln Asp Phe Leu Ser Arg Ile Phe Gln Val Pro Pro Gly Gln Met 355 360 365

Pro Asn Gly Asn Phe Phe Ala Ala Pro Gln Pro Ala Pro Gly Ala Ala 370 375 380

Ala Ala Ser Lys Pro Asn Ser Thr Val Pro Lys Gly Glu Ala Lys Pro 385 390 395 400

Lys Arg Arg Lys Lys Val Arg Arg Pro Phe Gln Arg 405 410

<210> 1677

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1677

Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys 1 10 15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro 20 25 30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser 35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln 50 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu 65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys 85 90 95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Leu Ala Gly His Thr Lys 100 105 110

Lys Glu Ile Asn Arg Ile Xaa Glu Pro Gly
115 120

<210> 1678

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1678

Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys
1 5 10 15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro 20 25 30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser 35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln 50 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu 65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys
85 90 95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Trp Gln Ala Tyr Lys Glu 100 105 110

Glu Ile Asn Arg Ile Gln Glu Gln Leu Thr Pro Ser Gln Ile Val Ser 115 120 125

Leu Glu Lys Glu Ile Gln Gln Lys Arg Leu Lys Lys Lys Ala Leu Ile 130 135 140

Lys Lys Arg Glu Leu Thr Met Leu Gly Lys Pro Lys Arg Pro Arg Ser 145 150 155 160

Ala Tyr Asn Ile Phe Ile Ala Glu Arg Phe Gln Glu Thr Lys Asp Gly
165 170 175

Thr Ser Gln Val Lys Leu Lys Thr Ile Asn Glu Asn Trp Lys Asn Leu 180 185 190

Ser Ser Ser Gln Lys Gln Val Tyr Ile Gln Leu Ala Asn Asp Asp Lys
195 200 205

Ile Arg Tyr Tyr Asn Glu Met Lys Ser Trp Glu Glu Gln Met Met Glu 210 215 220

Val Gly Arg Lys Asp Leu Leu Arg Arg Thr Val Lys His Gln Arg Lys 225 230 235 240

Val Asp Pro Glu Glu Tyr 245

<210> 1679

<211> 495

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (330)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (333)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1679

Met Ser Met Leu Val Val Phe Leu Leu Leu Trp Gly Val Thr Trp Gly
1 5 10 15

Pro Val Thr Glu Ala Ala Ile Phe Tyr Glu Thr Gln Pro Ser Leu Trp 20 25 30

Ala Glu Ser Glu Ser Leu Leu Lys Pro Leu Ala Asn Val Thr Leu Thr 35 40 45

Cys Gln Ala Arg Leu Glu Thr Pro Asp Phe Gln Leu Phe Lys Asn Gly 50 55 60

Val Ala Gln Glu Pro Val His Leu Asp Ser Pro Ala Ile Lys His Gln 65 70 . 75 80

Phe Leu Leu Thr Gly Asp Thr Gln Gly Arg Tyr Arg Cys Arg Ser Gly 85 90 95

Leu	Ser	Thr	Gly 100	Trp	Thr	Gln	Leu	Ser 105	Lys	Leu	Leu	Glu	Leu 110	Thr	Gly
Pro	Lys	Ser 115	Leu	Pro	Ala	Pro	Trp 120	Leu	Ser	Met	Ala	Pro 125	Val	Ser	Trp
Ile	Thr 130	Pro	Gly	Leu	Lys	Thr 135	Thr	Ala	Val	Cys	Arg 140	Gly	Vaľ	Leu	Arg
Gly 145	Val	Thr	Phe	Leu	Leu 150	Arg	Arg	Glu	Gly	Asp 155	His	Glu	Phe	Leu	Glu 160
Val	Pro	Glu	Ala	Gln 165		Asp	Val	Glu	Ala 170	Thr	Phe	Pro	Val	His 175	Gln
Pro	Gly	Asn	Tyr 180	Ser	Cys	Ser	Tyr	Arg 185	Thr	Asp	Gly	Glu	Gly 190	Ala	Leu
Ser	Glu	Pro 195		Ala	Thr	Val	Thr 200	Ile	Glu	Glu	Leu	Ala 205	Ala	Pro	Pro
Pro	Pro 210	Val	Leu	Met	His	His 215	Gly	Glu	Ser	Ser	Gln 220	Val	Leu	His	Pro
Gly 225	Asn	Lys	Val	Thr	Leu 230	Thr	Суз	Val	Ala	Pro 235	Leu	Ser	Gly	Val	Asp 240
Phe	Gln	Leu	Arg	Arg 245		Glu	Lys	Glu	Leu 250		Val	Pro	Arg	Ser 255	Ser
Thr	Ser	Pro	Asp 260		Ile	Phe	Phe	His 265	Leu	Asn	Aĺa	Val	Ala 270	Leu	Gly
Asp	Gly	Gly 275		Туг	Thr	Cys	Arg 280		Arg	Leu	His	Asp 285	Asn	Gln	Asn
	Trp 290		Gly	Asp	Ser	Ala 295	Pro	Val	Glu	Leu	Ile 300	Leu	Ser	Asp	Glu
Thr 305		Pro	Ala	Pro	Glu 310		Ser	Pro	Glu	315	Glu	. Ser	. GJA	Arg	Ala 320
Let	ı Arç	, Lei	ı Arç	, Cys 325	Leu S	. Ala	a Pro	Leí	330	Gly	Ala	a Xaa	. Phe	Ala 335	Leu
Val	Arg	g Gli	Ası 340		g Gly	Gly	y Arg	345		His	arg	p Phe	350	Ser	Pro
Ala	a Gly	7 Th: 35!		ı. Ala	a Lev	Phe	e Glu 360		ı His	Ası	ı Ile	9 Sei 36	val	Ala	a Asp
Se	c Ala 37		n Ty:	r Sei	r Cys	375		r Val	l Ası	p Let	1 Lys 381	s Pro	Pro	Phe	e Gly
Gl <sub>3</sub> 38		r Al	a Pr	o Se	r Glu 390		g Lei	ı Glı	ı Le	i Hi: 39	s Vai	l Ası	o Gly	/ Pro	9ro 400
Pr	o Ar	g Pr	o Gl	n Le		g Ala	a Thi	r Tr	p Se:		y Ala	a Va	l Le	Ala 41	a Gly 5

Arg Asp Ala Val Leu Arg Cys Glu Gly Pro Ile Pro Asp Val Thr Phe 420 425 430

Glu Leu Leu Arg Glu Gly Glu Thr Lys Ala Val Lys Thr Val Arg Thr 435 440 445

Pro Gly Ala Ala Ala Asn Leu Glu Leu Ile Phe Val Gly Pro Gln His 450 455 460

Ala Gly Asn Tyr Arg Cys Arg Tyr Arg Ser Trp Val Pro His Thr Phe 465 470 475 480

Glu Ser Glu Leu Ser Asp Pro Val Glu Leu Leu Val Ala Glu Ser 485 490 495

<210> 1680

<211> 495

<212> PRT

<213> Homo sapiens

<400> 1680

Met Ser Met Leu Val Val Phe Leu Leu Trp Gly Val Thr Trp Gly

1 5 10 15

Pro Val Thr Glu Ala Ala Ile Phe Tyr Glu Thr Gln Pro Ser Leu Trp
20 25 30

Ala Glu Ser Glu Ser Leu Leu Lys Pro Leu Ala Asn Val Thr Leu Thr 35 40 45

Cys Gln Ala Arg Leu Glu Thr Pro Asp Phe Gln Leu Phe Lys Asn Gly 50 55 60

Val Ala Gln Glu Pro Val His Leu Asp Ser Pro Ala Ile Lys His Gln 65 70 75 80

Phe Leu Leu Thr Gly Asp Thr Gln Gly Arg Tyr Arg Cys Arg Ser Gly 85 90 95

Leu Ser Thr Gly Trp Thr Gln Leu Ser Lys Leu Leu Glu Leu Thr Gly 100 105 110

Pro Lys Ser Leu Pro Ala Pro Trp Leu Ser Met Ala Pro Val Ser Trp 115 120 125

Ile Thr Pro Gly Leu Lys Thr Thr Ala Val Cys Arg Gly Val Leu Arg
130 135 140

Gly Val Thr Phe Leu Leu Arg Arg Glu Gly Asp His Glu Phe Leu Glu 145 150 155 160

Val Pro Glu Gly Gln Glu Asp Val Glu Ala Thr Phe Pro Val His Gln 165 170 175

Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr Asp Gly Glu Gly Ala Leu 180 185 190

Ser Glu Pro Ser Ala Thr Val Thr Ile Glu Glu Leu Ala Ala Pro Pro 195 200 205

Pro Pro Val Leu Met His His Gly Glu Ser Ser Gln Val Leu His Pro 210 215 220

Gly Asn Lys Val Thr Leu Thr Cys Val Ala Pro Leu Ser Gly Val Asp 225 230 235 240

Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu Leu Val Pro Arg Ser Ser 245 . 250 . 255

Thr Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly 260 265 270

Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg Leu His Asp Asn Gln Asn 275 280 285

Gly Trp Ser Gly Asp Ser Ala Pro Val Glu Leu Ile Leu Ser Asp Glu 290 295 300

Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu Pro Glu Ser Gly Arg Ala 305 . 310 . 315 . 320

Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu Gly Ala Arg Phe Ala Leu 325 330 335

Val Arg Glu Asp Arg Gly Gly Arg Arg Val His Arg Phe Gln Ser Pro 340 345 350

Ala Gly Thr Glu Ala Leu Phe Glu Leu His Asn Ile Ser Val Ala Asp 355 360 365

Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp Leu Lys Pro Pro Phe Gly 370 375 380

Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu His Val Asp Gly Pro Pro 385 390 395 400

Pro Arg Pro Gln Leu Arg Ala Thr Trp Ser Gly Ala Val Leu Ala Gly 405 415

Arg Asp Ala Val Leu Arg Cys Glu Gly Pro Ile Pro Asp Val Thr Phe 420 425 430

Glu Leu Leu Arg Glu Gly Glu Thr Lys Ala Val Lys Thr Val Arg Thr 435 440 445

Pro Gly Ala Ala Ala Asn Leu Glu Leu Ile Phe Val Gly Pro Gln His 450 455 460

Ala Gly Asn Tyr Arg Cys Arg Tyr Arg Ser Trp Val Pro His Thr Phe 465 470 475 480

Glu Ser Glu Leu Ser Asp Pro Val Glu Leu Leu Val Ala Glu Ser 485 490 495 WO 01/77137

<211> 153

<212> PRT

<213> Homo sapiens . .

<400> 1681

Met Leu Lys Asp Phe Ser Asn Leu Leu Leu Val Val Leu Cys Asp Tyr
1 5 10 15

Val Leu Gly Glu Ala Glu Tyr Leu Leu Leu Arg Glu Pro Gly His Val 20 25 30

Ala Leu Ser Asn Asp Thr Val Tyr Val Asp Phe Gln Tyr Phe Asp Gly
35 40 45

Ala Asn Gly Thr Leu Arg Asn Val Ser Val Leu Leu Leu Glu Ala Asn 50 55 60

Thr Asn Gln Thr Val Thr Thr Lys Tyr Leu Leu Thr Asn Gln Ser Gln 65 70 75 80

Gly Thr Leu Lys Phe Glu Cys Phe Tyr Phe Lys Glu Ala Gly Asp Tyr 85 90 95

Trp Phe Thr Met Thr Pro Glu Ala Thr Asp Asn Ser Thr Pro Phe Pro 100 105 110 ,

Trp Trp Glu Lys Ser Ala Phe Leu Lys Val Glu Trp Pro Val Phe His 115 120 125

Val Asp Leu Asn Arg Ser Ala Lys Ala Ala Glu Gly Thr Phe Gln Val 130 135 140

Gly Leu Phe Thr Ser Gln Pro Leu Cys 145 150

<210> 1682

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1682

Ser Ser Pro Thr Ser Pro Lys Asp Asn Tyr Gln Arg Val Ser Ser Leu
1 5 10 15

Ser Pro Ser Gln Cys Arg Lys Asp Lys Cys Gln Ser Phe Pro Thr His

Pro Glu Phe Ala Phe Tyr Asp Asn Thr Ser Phe Gly Leu Thr Glu Ala 35 40 45

Glu Gln Arg Met Leu Asp Leu Pro Gly Tyr Phe Gly Ser Asn Glu Glu
50 55 60

Asp Glu Thr Thr Ser Thr Leu Ser Val Glu Lys Leu Val Ile 65 70 75

## WO 01/77137

<210> 1683

<211> 490

<212> PRT

<213> Homo sapiens

<400> 1683

Met Gly Lys Asn Lys Tyr Cys Phe Asp Phe Gly Ile Ser Ser Arg Ser 1 5 10 15

His Phe Ser Ala Lys Glu Glu Cys Met Leu Ile Gln Arg Asn Thr Ala 20 25 30

Phe Gln Pro Ser Ser Pro Ser Pro Leu Gln Pro Gln Gly Pro Val Lys
35 40 45

Ser Asn Asn Ile Val Thr Val Thr Gly Ile Ser Leu Cys Leu Phe Ile 50 55 60

Ile Ile Ala Thr Val Leu Ile Thr Leu Trp Arg Arg Phe Gly Arg Pro 65 70 75 80

Ala Lys Cys Ser Thr Pro Ala Arg His Asn Ser Ile His Ser Pro Ser 85 90 95

Phe Arg Lys Asn Ser Asp Glu Glu Asn Ile Cys Glu Leu Ser Glu Gln 100 105 110

Arg Gly Ser Phe Ser Asp Gly Gly Asp Gly Pro Thr Gly Ser Pro Gly 115 120 125

Asp Thr Gly Ile Pro Leu Thr Tyr Arg Arg Ser Gly Pro Val Pro Pro 130 135 140

Glu Asp Asp Ala Ser Gly Ser Glu Ser Phe Gln Ser Asn Ala Gln Lys 145 150 155 160

Ile Ile Pro Pro Leu Phe Ser Tyr Arg Leu Ala Gln Gln Gln Leu Lys 165 170 175

Glu Met Lys Lys Lys Gly Leu Thr Glu Thr Thr Lys Val Tyr His Val

Ser Gln Ser Pro Leu Thr Asp Thr Ala Ile Asp Ala Ala Pro Ser Ala 195 200 205

Pro Leu Asp Leu Glu Ser Pro Glu Glu Ala Ala Ala Asn Lys Phe Arg 210 215 220

Ile Lys Ser Pro Phe Pro Glu Gln Pro Ala Val Ser Ala Gly Glu Arg 225 230 235 240

Pro Pro Ser Arg Leu Asp Leu Asn Val Thr Gln Ala Ser Cys Ala Ile 245 250 255

Ser Pro Ser Gln Thr Leu Ile Arg Lys Ser Gln Ala Arg His Val Gly 260 265 270

Ser Arg Gly GIy Pro Ser Glu Arg Ser His Ala Arg Asn Ala His Phe 275 280 285

Arg Arg Thr Ala Ser Phe His Glu Ala Arg Gln Ala Arg Pro Phe Arg

Glu Arg Ser Met Ser Thr Leu Thr Pro Arg Gln Ala Pro Ala Tyr Ser 315 . 310

Ser Arg Thr Arg Thr Cys Glu Gln Ala Glu Asp Arg Phe Arg Pro Gln

Ser Arg Gly Ala His Leu Phe Pro Glu Lys Leu Glu His Phe Gln Glu

Ala Ser Gly Thr Arg Gly Pro Leu Asn Pro Leu Pro Lys Ser Tyr Thr 360 365

Leu Gly Gln Pro Leu Arg Lys Pro Asp Leu Gly Asp His Gln Ala Gly

Leu Val Ala Gly Ile Glu Arg Thr Glu Pro His Arg Ala Arg Arg Gly. 395

Pro Ser Pro Ser His Lys Ser Val Ser Arg Lys Gln Ser Ser Pro Ile 405 . 410

Ser Pro Lys Asp Asn Tyr Gln Arg Val Ser Ser Leu Ser Pro Ser Gln 425

Cys Arg Lys Asp Lys Cys Gln Ser Phe Pro Thr His Pro Glu Phe Ala 440

Phe Tyr Asp Asn Thr Ser Phe Gly Leu Thr Glu Ala Glu Gln Arg Met 455

Leu Asp Leu Pro Gly Tyr Phe Gly Ser Asn Glu Glu Asp Glu Thr Thr 470

Ser Thr Leu Ser Val Glu Lys Leu Val Ile 485

<210> 1684

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val 10

Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala 20 25 30

Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
35 40 45

Gln Ala Asp Val Gly Arg Arg Lys His Gln Ser Trp Trp Gln Ala
50 60

Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys 65 70 75 80

Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys 85 90 95

Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro 100 105 110

His Leu Ser Leu Glu Pro Ile Gly Glu Leu Xaa Pro Val Pro Ile Val 115 120 125

Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile 130 135 140

Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu His Val Pro Pro Arg 145 150 155 160

Lys Lys Lys Asn Phe Leu Asn Ala Lys Lys Ala Met Arg Ala Xaa Gly
165 170 175

Met Asp

<210> 1685

<211> 200

<212> PRT

<213> Homo sapiens

<400> 1685

Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val

1 5 10 15

Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala 20 25 30

Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
35 40 45

Gln Ala Asp Val Gly Arg Arg Lys His Gln Ser Trp Trp Gln Ala
50 55 60

Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys 65 70 75 80

Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys 85 90 95

Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro 1057

100 105 110

His Leu Ser Leu Glu Pro Ile Gly Glu Leu Gly Pro Val Pro Ile Val 115 120 125

Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile 130 135 140

Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu Thr Phe Leu Gln Glu 145 150 155 160

Lys Glu Asp Leu Phe Glu Cys Pro Lys Gly His Glu Gly Leu Gly His 165 170 175

Gly Leu Ala Gln Gly Lys Asp Leu Arg Glu His Met Lys Arg Glu Gly 180 185 190

Met Ile Phe Ser Cys Pro Pro Val 195 200

<210> 1686

<211> 419

<212> PRT

<213> Homo sapiens

<400> 1686

Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala 1 5 10 15

Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln 20 25 30

Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
45

Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp 50 55 60

Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu 65 70 75 80

His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe 85 90 95

Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn 100 105 110

Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val 115 120 125

Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met 130 135 140

Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu 145 150 155 160

Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln 165 170 175

Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg 180 185 . 190

- Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile 195 200 205
- Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr 210 215 220
- Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys 225 230 235 240
- Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu 245 250 255
- Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys 260 265 270
- Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys 275 280 285
- Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys 290 295 300
- Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys 305 310 315 320
- Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala 325 330 . 335
- Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu 340 345 350
- Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp 355 360 365
- Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys 370 375 380
- Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu 385 390 395 400
- Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val 405 410 415

Glu Trp Phe

<210> 1687

<211> 419

<212> PRT

<213> Homo sapiens

<400> 1687

Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala 1 5 10 15

Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln
20 25 30

- Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
  35 40 45
- Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp 50 55 60
- Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu 65 70 75 80
- His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe
  85 90 95
- Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn 100 105 110
- Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val 115 120 125
- Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met 130 135 140
- Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu 145 150 155 160
- Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln 165 170 175
- Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg 180 185 190
- Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile 195 200 205
- Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr 210 215 220
- Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys 225 230 235 240
- Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu 245 250 255
- Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys 260 265 270
- Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys 275 280 285
- Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys 290 295 300
- Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys 305 310 315 320
- Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala 325 330 335

Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu 340 345 - 350

- Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp 355 360 365
- Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys 370 375 380
- Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu 385 390 395 400
- Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val405 410 415

Glu Trp Phe

- <210> 1688
- <211> 143
- <212> PRT
- . <213> Homo sapiens
  - <220>
  - <221> SITE
  - <222> (120)
  - <223> Xaa equals any of the naturally occurring L-amino acids
  - <220>
  - <221> SITE
  - <222> (142)
  - <223> Xaa equals any of the naturally occurring L-amino acids
  - <400> 1688
  - Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe 1 5 10 15
  - Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro 20 25 30
  - Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg 35 40 45
  - Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met 50 55 60
  - Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln 65 70 75 80
  - Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu 85 90 95
  - Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro
    100 105 110
  - Cys Val Asp Gly Trp Val Tyr Xaa Arg Arg Ser Ser Pro Pro Pro Ser 115 120 125

Trp Pro Ser Gly Thr Trp Cys Ala Ala Pro Arg Leu Glu Xaa Pro 130 135 140

<210> 1689 <211> 515 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (145) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (151) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (168) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1689 Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro 20 Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg 40 Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met 50 Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu · 90 Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro 105 Cys Val Asp Gly Trp Val Tyr Asp Arg Ser Val Phe Thr Ser Thr Ile 120 Val Ala Lys Trp Asp Leu Val Cys Ser Ser Gln Gly Leu Lys Pro Leu 135 Xaa Gln Ser Ile Phe Met Xaa Gly Ile Leu Val Gly Ser Phe Ile Trp 145 150 Gly Leu Leu Ser Tyr Arg Phe Xaa Arg Lys Pro Met Leu Ser Trp Cys 170 Cys Leu Gln Leu Ala Val Ala Gly Thr Ser Thr Ile Phe Ala Pro Thr

1062

			180					185					190		
Phe	Val	Ile 195	Tyr	Cys	Gly	Leu	Arg 200	Phe	Val	Ala	Ala	Phe 205	Gly	Met	Ala
Gly	Ile 210	Phe :	Leu	Ser	Ser	Leu 215	Thr	Leu	Met	Val	Glu 220	Trp	Thr	Thr	Thr
Ser 225	Arg	Arg	Ala	Val	Thr 230	Met	Thr	Val	Val	G1y 235	Суз	Ala	Phe	Ser	Ala 240
Gly	Gln	Ala	Ala	Leu 245	Gly	Gly	Leu	Ala	Phe 250	Ala	Leu	Arg	Asp	Trp 255	Arg
Thr	Leu	Gln	Leu 260	Ala	Ala	Ser	Val	Pro 265	Phe	Phe	Ala	Ile	Ser 270	Leu	Ile
Ser	Trp	Trp 275	Leu	Pro	Glu	Ser	Ala 280	Arg	Trp	Leu	Ile	Ile 285	Lys	Gly	Lys
	290		•			295					300		Ile		
305	•				310					315			Ser		320
				325					330				Leu	335	
		,	340					345					Leu 350		
Asn	Phe	Ser 355		Leu	.Ile	Ser	Tyr 360	Tyr	Gly	Leu	. Val	Phe 365	Asp	Leu	Gln
	370					375	,				380	+	: Gly		
385					390					395	i		Phe		400
				405	•				410				Leu	415	
			420	)			٠,	425	5				Asp 430	)	
Leu	His	435	_	L Gly	/ Arg	Leu	1 Gly 440		a Met	: Met	: Gly	449	Leu S	ı Il∈	. Leu
Met	Ser 450		g Glr	n Ala	a Leu	455		Let	ı Pro	Pro	460	ı Let	ı Tyr	Gly	val
465	5				470	)				47	5		ı Pro		480
				48	5				49	0 .			ı Ser	49:	
Sea	r Thi	r Al	a Ala	a Gl	n Gl	/ As:	n Arg	g Gl:	n Gl		a Va	1 Th	r Val	l Gl	ı Ser

510 505 500

Thr Ser Leu 515

<210> 1690

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1690

Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Val Leu His His His 75

Thr Ile Gln Met Met Asn Lys Lys 85

<210> 1691

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1691

Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu 40

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Gln Arg Cys Gln Gly 70

Ser

<211> 462 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (148) <223> Xaa equals any of the naturally occurring L-amino acids <221> SITE <222> (149) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (204) <223> Xaa equals any of the naturally occurring L-amino acids <221> SITE <222> (292) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (303) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1692 Met Val Asp Tyr Leu Gln Lys Ala Val Leu Leu Asn Leu Gly Thr Ile 10 Glu Leu Tyr Gly Ser Asn Asp Pro Tyr Arg Arg Glu Pro Arg Ser Pro Arg Lys Ser Arg Gln Pro Ser Gly Ala Gly Leu Cys Asp Ile Ser Glu Gly Thr Val Val Pro Glu Asp Arg Cys Lys Ser Pro Thr Ser Ala Lys Met Ser Arg Lys Leu Ser Leu Pro Thr Asp Leu Lys Pro Asp Leu Asp 75 Val Lys Asp Asn Ser Phe Ser Arg Ser Arg Ser Ser Ser Val Thr Ser 85 Ile Asp Lys Glu Ser Arg Glu Ala Ile Ser Ala Leu His Phe Cys Glu 100 Thr Phe Thr Arg Lys Thr Asp Ser Ser Pro Ser Pro Cys Leu Trp Val Gly Thr Thr Leu Gly Thr Val Leu Val Ile Ala Leu Asn Leu Pro Pro Gly Gly Glu Xaa Xaa Leu Leu Gln Pro Val Ile Val Ser Pro Ser Gly

. 145

155

Thr Ile Leu Arg Leu Lys Gly Ala Ile Leu Arg Met Ala Phe Leu Asp 165 170 175

Thr Thr Gly Cys Leu Ile Pro Pro Ala Tyr Glu Pro Trp Arg Glu His 180 185 190

Asn Val Pro Glu Glu Lys Asp Glu Lys Glu Lys Xaa Lys Lys Arg Arg 195 200 205

Pro Val Ser Val Ser Pro Ser Ser Ser Gln Glu Ile Ser Glu Asn Gln 210 215 220

Tyr Ala Val Ile Cys Ser Glu Lys Gln Ala Lys Val Ile Ser Leu Pro 225 230 . 235 240

Thr Gln Asn Cys Ala Tyr Lys Gln Asn Ile Thr Glu Thr Ser Phe Val 245 250 255

Leu Arg Gly Asp Ile Val Ala Leu Ser Asn Ser Ile Cys Leu Ala Cys . 260 265 270

Phe Cys Ala Asn Gly His Ile Met Thr Phe Ser Leu Pro Ser Leu Arg 275 280 285

Pro Leu Leu Xaa Val Tyr Tyr Leu Pro Leu Thr Asn Met Arg Xaa Ala 290 295 300

Arg Thr Phe Cys Phe Thr Asn Asn Gly Gln Ala Leu Tyr Leu Val Ser 305 310 315

Pro Thr Glu Ile Gln Arg Leu Thr Tyr Ser Gln Glu Thr Cys Glu Asn 325 330 335

Leu Gln Glu Met Leu Gly Glu Leu Phe Thr Pro Val Glu Thr Pro Glu 340 345 350

Ala Pro Asn Arg Gly Phe Phe Lys Gly Leu Phe Gly Gly Gly Ala Gln 355 360 365

Ser Leu Asp Arg Glu Glu Leu Phe Gly Glu Ser Ser Ser Gly Lys Ala 370 375 380

Ser Arg Ser Leu Ala Gln His Ile Pro Gly Pro Gly Gly Ile Glu Gly 385 390 395 400

Val Lys Gly Ala Ala Ser Gly Val Val Gly Glu Leu Ala Arg Ala Arg 405 410 415

Leu Ala Leu Asp Glu Arg Gly Gln Lys Leu Gly Asp Leu Glu Glu Arg 420 425 430

Thr Ala Ala Met Leu Ser Ser Ala Glu Ser Phe Ser Lys His Ala His
435 440 445

Glu Ile Met Leu Lys Tyr Lys Asp Lys Lys Trp Tyr Gln Phe 450 455 460

<211> 112

<212> PRT

<213> Homo sapiens

<400> 1693

Met Leu Ile Ser Gly Trp Ala Arg Trp Leu Met Pro Leu Val Pro Ala
1 5 10 15

Leu Trp Glu Ala Glu Ala Gly Glu Ser Gly Val Gln Asp Gln Pro Gly 20 25 30

Gln Cys Gly Glu Thr Leu Ser Leu Leu Lys Ile Lys Lys Lys Lys Lys Lys 35 40 45

Lys Lys Trp Leu Ile Ser Glu Ser Tyr Ser Gly Leu Asn Ser Val Ile
50 55 60

Gln Pro Lys Leu Ile Thr Leu Cys Tyr Leu Trp Glu Pro His Leu Lys
65 70 75 80

Ser Lys Asp Pro Asp Thr Cys Leu Ile Leu Trp Gln Gly Ser Asn Glu 85 90 95

Ser Asn Lys Met Leu Val Lys Val Arg Thr Gly Ser Ile Leu Asn Thr 100 105 110

<210> 1694

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1694

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys 20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Xaa His Cys Ser 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Xaa Lys Ser Thr Ala

65 70 75 80

Val Lys

<210> 1695

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1695

Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys 20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser 35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln 50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala 65 70 75 80

Val Lys

<210> 1696

.<211> 193

<212> PRT

<213> Homo sapiens

<400> 1696

Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr 1 5 10 15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys 20 25 30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gl<br/>n Val \$35\$ 40 45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys 50 55 60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr 65 70 75 80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu 85 90 95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr 100 105 110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe 115 120 125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met 130 135 140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asm Ile Leu Asp 145 150 150 160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala 165 170 175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys 180 185 190

Lys

<210> 1697

<211> 193

<212> PRT

<213> Homo sapiens

<400> 1697

Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr 1 5 10 15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys
20 25 30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val 35 40 45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys 50 55 60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr 65 70 75 80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu 85 90 95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr 100 105 110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe 115 120 125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met 130 135 140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp 145 150 155 160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala 165 170 175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys

180 185 190

Lys

<210> 1698

<211> 22

<212> PRT

<213> Homo sapiens

<400> 1698

Met Val Cys Asp Ser Leu Pro Arg His Asp Phe His Pro Ala Arg Leu
1 5 10 15

His Pro Thr Arg Phe Leu 20

<210> 1699

<211> 271

<212> PRT

<213> Homo sapiens

<400> 1699

Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn His
1 5 10 15

Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln 20 25 30

Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu Ser 35 40 45

Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro Tyr 50 55 60

Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro Ser

Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val Cys 85 90 95

Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val Leu 100 105 110

Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr Leu 115 120 125

Leu Thr Gly Gln Ala Asn Gly Ser Leu Ala Met Trp Asp Leu Thr Thr 130 135 140

Ala Met Asp Gly Leu Gly Gln Ala Pro Ala Gly Gly Leu Thr Glu Gln 145 150 150 160

Glu Leu Met Glu Gln Leu Glu His Cys Glu Leu Ala Pro Pro Ala Pro 165 170 175

Ser Ala Pro Ser Trp.Gly Cys Leu Pro Ser Pro Ser Pro Arg Ile Ser 180 185 190

Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser Leu Ser Gly His
195 200 205

Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg Arg Arg Gly Gly 210 215 220

Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg Ser Gly Pro Asp 225 230 235 240

Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser Ser Gly Leu Gly 245 250 255

Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu Thr Ser Phe 260 265 270

<210> 1700

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700

Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
1 5 10 15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe

Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val 65 70 75 80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu 85 90 95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile 100 105 110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp 115 120 125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro 130 135 140

Leu Asn Thr Gly 145

<210> 1701

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1701

Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala 1 5 15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
20 25 30

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn 35 40 45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
50 55 60

Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val 65 70 75 80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu 85 90 95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile 100 105 110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp 115 120 125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro 130 135 140

Leu Asn Thr Gly

<210> 1702

<211> 408

<212> PRT

<213> Homo sapiens

. <220> .<221> SITE <222> (223) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1702 Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe Ile Ile Val Ser Phe Gly Gln Lys Ser Ala Trp Ser Ser Ala Gln Val Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile 100 His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Ser Tyr Tyr Asp Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Val Ile Val Ser Ile Glu Tyr Arg Leu Val Pro Lys Val Tyr Phe Pro Glu Gln Ile His 155 Asp Val Val Arg Ala Thr Lys Tyr Phe Leu Lys Pro Glu Val Leu Gln Lys Tyr Met Val Asp Pro Gly Arg Ile Cys Ile Ser Gly Asp Ser Ala 185 Gly Gly Asn Leu Ala Ala Ala Leu Gly Gln Gln Phe Thr Gln Asp Ala 195 Ser Leu Lys Asn Lys Leu Lys Leu Gln Ala Leu Ile Tyr Pro Xaa Leu Gln Ala Leu Asp Phe Asn Thr Pro Ser Tyr Gln Gln Asn Val Asn Thr Pro Ile Leu Pro Arg Tyr Val Met Val Lys Tyr Trp Val Asp Tyr Phe 245 Lys Gly Asn Tyr Asp Phe Val Gln Ala Met Ile Val Asn Asn His Thr

Ser Leu Asp Val Glu Glu Ala Ala Ala Val Arg Ala Arg Leu Asn Trp 275 280 285

Thr Ser Leu Leu Pro Ala Ser Phe Thr Lys Asn Tyr Lys Pro Val Val 290 295 300

Gln Thr Thr Gly Asn Ala Arg Ile Val Gln Glu Leu Pro Gln Leu Leu 305 310 315 320

Asp Ala Arg Ser Ala Pro Leu Ile Ala Asp Gln Ala Val Leu Gln Leu 325 330 335

Leu Pro Lys Thr Tyr Ile Leu Thr Cys Glu His Asp Val Leu Arg Asp 340 345 350

Asp Gly Ile Met Tyr Ala Lys Arg Leu Glu Ser Ala Gly Val Glu Val 355 360 365

Thr Leu Asp His Phe Glu Asp Gly Phe His Gly Cys Met Ile Phe Thr 370 375 380

Ser Trp Pro Thr Asn Phe Ser Val Gly Ile Arg Thr Arg Asn Ser Tyr 385 390 395 400

Ile Lys Trp Leu Asp Gln Asn Leu 405

<210> 1703

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1703

Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu

1 5 10 15

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys
20 25 30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly 35 40 45

Thr Thr Gly Ala His His Ala Arg Leu Val Phe Cys Ile Leu Val

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe 65 70 75 80

Val Ile Cys Leu Pro Gln Thr Pro . 85

<210> 1704

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1704

Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu

1074

10

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys 25 ` 30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly

Thr Thr Gly Ala His His His Ala Arg Leu Val Phe Cys Ile Leu Val

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe

Val Ile Cys Leu Pro Gln Thr Pro 85

<210> 1705

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1705

Met Ile Gly Tyr Arg Leu Cys Leu His Leu Leu Ser Leu Leu Gly Phe

Gln Pro Leu Pro Met Gly Leu Cys Arg Val Arg Glu Gln Lys Phe Lys

Gln Phe Ser Gly Leu Ser His Phe Ser Phe Arg Ile Ser Pro Val Thr 40

Phe Pro Ser Tyr Val His Ala Asp Ser Gln Pro Thr Arg Asp Lys Trp 55 60

Val Pro Trp Asp Leu Ser Ser Phe Thr Cys Met Cys Ala Glu Ala Ser 70

Lys Ser Ala Arg Asn Val Trp Thr Ala Leu Gln Thr Pro Leu

<210> 1706

<211> 61

<212> PRT

<213> Homo sapiens

<400> 17.06

Ser Gln His Phe Gly Arg Pro Arg Trp Lys Asp Cys Leu Lys Pro Gly 10

Val Arg Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Cys Lys

Lys Lys Gly Ile Ile Leu Tyr Phe Leu Leu Ile Arg Phe Ile Cys Val 45 40

Ser Asn Leu His Leu Gln Phe Asp Phe Phe Ser Asp Leu 55

<210> 1707

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

Val Ile Phe Phe Phe Phe Ser Cys Arg Glu Arg Val Cys Val Ala

Gln Ala Gly Leu Asn Phe Met Ala Ser Ser Tyr Ser Ala Ser Ala Ser

Arg Ser Ala Gly Asn Ile Gly Met Ser His His Thr Gln Pro Leu Cys

Leu Leu Ser Phe Ser Ile Ile Ile Asn Leu Phe Met Phe Ile His Ser

Pro Val Asp Glu Xaa Leu Gly Cys Phe Gln Phe Trp Ala Val Thr Asn

Lys Ala Pro Gly Asn Ile Cys Val Gln Lys Lys Lys Lys Lys Lys 90

Lys Lys Lys Lys 100

<210> 1708

<211>. 123

<212> PRT

<213> Homo sapiens

Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe

Ser His His Wal Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile 40

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala 75 70

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala

Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg 105

Trp Val Leu Leu Leu Ala Cys Ala Leu Leu His 120 115

<210> 1709

<211> 160

<212> PRT

<213> Homo sapiens

<22,0>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

Leu Pro Asn Cys Tyr Leu Xaa Asp Thr Ile Glu Gly Thr Pro Ala Gly

Thr Gly Pro Glu Phe Ala Ala Ser Thr Ser Leu Lys Glu Cys Arg

Ala Val Ile Ile Ala Ser Arg Gly Gln Pro Val Trp Pro Ala Leu Leu

Asp Val His Ala Val Asp Asp Phe Val Val Ser Cys Asn Leu Ala His

Arg Arg Ala Thr Ile Pro Glu Glu Asp Cys Ser Lys Leu Leu Pro Ser - 75

Phe Pro Asp His Gly Asp Pro Leu Thr Val Phe Ser Pro Ser Asn Val

Phe Asp Leu Pro Ser Glu Arg Leu Val Leu Ile Leu Gln Gln Val Leu 105

Leu Leu Arg Gly Ile Pro Asp Pro Gln Leu Pro Arg His Ile Ser Gly 120

Gly Asn Val Glu Ser Ala Gly Arg Ile Leu Gly His His Leu Met 135

Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp Val Val Asp Val Pro 155 145

<210> 1710

<211> 21

<212> PRT

<213> Homo sapiens

<400> 1710 His His Leu Met Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp 5

Val Val Asp Val Pro 20

<210> 1711

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe

Ser His His Wal Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala 75

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala 90 85 .

Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg 105

Trp Val Leu Ser Phe Gly Met Cys Ser Ser Ala Leu Val Val Phe Val - 120

Phe Gly Ala Leu Thr Glu Trp Leu Arg Phe Tyr Asn Lys Trp Leu Tyr 135

Cys Cys Leu Trp Ile Val Asn Gly Leu Leu Gln Ser Thr Gly Trp Pro 150

Cys Val Xaa Ala Val Met Gly Asn Trp Phe Gly Lys Ala Gly Tyr Ala 170 165

Thr Ser Phe Leu Ser Asn Phe Ser Val 180

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<210> 1712
<211> 102
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1712
Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Xaa Xaa Ile Ser
Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu
             20
Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser
                             40
Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala
     50
Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile
Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
                                     90
Cys Pro Lys Thr Ala Ala
            100
<210> 1713
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1713
Val Trp Ala Arg Trp Pro Met Leu Ser Ile Pro Ala Ala Gln Gly Gly
                                     10
Arg Leu Leu Glu Pro Lys His Ser Arg Leu Ala Trp Glu Thr Xaa Gln
             .20
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Gly Gly Ser Cys Leu

Asp Pro Val Ser Thr Lys Thr Phe Lys Met Ser Gln Val Ala Gly Cys
35 40

50

<210> 1714 <211> 173 <212> PRT <213> Homo sapiens

<400> 1714
Met Leu Gln Pro Ala Pro Tyr Lys Pro Leu Pro Glu Val Gly Gly Leu
1 5 10 15

Leu Ser Ser Leu Leu Pro Leu Pro Leu Cys Ser Pro Gln Asp Ala Gly 20 25 30

Gly Ala Trp Thr Pro Ser Ala Gln Ser Gly Gln Ala Ser Gly Arg Pro 35 40 45

Phe Met Gly Leu Ser Ile Leu Gly Pro Ala Gly Leu Arg Pro Thr Ser 50 55 60

Ser Ser Ser Ser Phe Pro Tyr Pro Ser Arg His Phe Gly Gln Gly 65 70 75 80

Trp Glu Val Val Arg Met Gly Ala Met Pro Gln Asn Ser Ser Leu Ser 85 90 95

Thr Ala Val Pro Ser Gly Met Gly Asp Gly Cys Gln Val Phe Trp Pro . 100 105 110

Pro Ala Pro Cys Arg Ser Gln Leu Ser Pro Pro Ala Ser Gly Ser Phe 115 120 125

Pro Leu Phe Ser Pro Leu Gln Ala Pro Pro Ser Pro Ser Asp Pro 130 135 140

Ala Gln Ala Pro Gly Ser Cys Gly Ser Ser Ser Gln Pro Arg His Ala 145 150 155 160

Pro Cys Ser Pro Pro Leu Pro Leu Ala Ala Pro Ser Ser 165 170

<210> 1715

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1715

Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Pro Pro Ile Ser 1 5 10 15

Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu 20 25 30

Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser 35 40 45

Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala
50 55 60

Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile 65 70 75 80

Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
85 90 95

Cys Pro Lys Thr Ala Ala 100

<210> 1716

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1716

Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp
1 5 10 15

Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg 20 25 30

Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val
35 40 45

Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Ala 50 55 60

Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser 65 70 75 80

Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser 85 90 95

Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly 100 105 110

Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe 115 120 125

His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Xaa Thr Pro Pro Arg 130 135 140

Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly 145 150 155 160

Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu 165 170 175

Glu Val Leu Gly 180

<210> 1717

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<211> 131
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1717
Glu Ala Lys Gly Thr Ala Met Gln Arg Pro Trp Gly Arg Thr Ala Pro
Gly Met Arg Glu Glu Gln Ser Kaa Glu Arg Arg Ala Gly Arg Ala Gly
Pro Cys Gly Pro Gln Gly Gly Leu Gly His Leu Pro Arg Gly Ser Gly
Ala Pro Gly Cys Val Ser Arg Trp Glu Arg Gln Gly Arg Ile Cys Gly
                         55
Asp Leu Thr Arg Ala Gly Glu Ala Glu Thr Arg Val Gln Pro Pro
Pro Lys Ala Gly Pro Ser Gln Arg Arg Gly Arg Ala Gly Gln Glu Val
                  85
Ser Gly Cys Leu Leu Gly Leu Val Trp Phe Cys Phe Val Leu Phe Ile
Val Val Lys Tyr Lys Ile Tyr Arg Leu Xaa Xaa Lys Lys Lys Lys
                             120
         115
 Gly Arg Pro
     130
 <210>.1718
 <211> 180
 <212> PRT
 <213> Homo sapiens
 Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp
                                    1082
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10 Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg 25 Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Ala Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe 125 His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Glu Thr Pro Pro Arg Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly 155 Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu 170 . 165 Glu Val Leu Gly 180 <210> 1719 <211> 177 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (120) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (124) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (126) <223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1719

Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu . . .

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg 25

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr 40 35

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro . 55

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr 90

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu 105 100

Ala Tyr Ala Ile Gln Asn Val Xaa Phe Asp Ile Xaa Ile Xaa Ser Leu . 120

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Ser Lys Lys Tyr

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser 150

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn 170 165 .

Phe

<210> 1720

<211> 447

<212> PRT

<213> Homo sapiens

<400> 1720

Thr Thr Thr Lys Phe Ala Ala Ser Thr Phe His Pro Ala Ser Lys 10

- Ser Asn Ile Lys Lys Val Trp Met Ala Glu Gln Lys Ile Ser Tyr Asp 20 25 30
- Lys Lys Gln Glu Glu Leu Met Gln Gln Tyr Leu Lys Glu Gln Glu
  35 40 45
- Ser Tyr Asp Asn Arg Leu Leu Met Gly Asp Glu Arg Val Lys Asn Gly 50 55 60
- Leu Asn Phe Met Tyr Glu Ala Pro Pro Gly Ala Lys Lys Glu Asn Lys 65 70 75 80
- Glu Lys Glu Glu Thr Glu Gly Glu Thr Glu Tyr Lys Phe Glu Trp Gln
  85 90 95
- Lys Gly Ala Pro Arg Glu Lys Tyr Ala Lys Asp Asp Met Asn Ile Arg 100 105 110
- Asp Gln Pro Phe Gly Ile Gln Val Arg Asn Val Arg Cys Ile Lys Cys 115 120 125
- His Lys Trp Gly His Val Asn Thr Asp Arg Glu Cys Pro Leu Phe Gly 130 135 140
- Leu Ser Gly Ile Asn Ala Ser Ser Val Pro Thr Asp Gly Ser Gly Pro 145 150 155 160
- Ser Met His Pro Ser Glu Leu Ile Ala Glu Met Arg Asn Ser Gly Phe 165 170 175
- Ala Leu Lys Arg Asn Val Leu Gly Arg Asn Leu Thr Ala Asn Asp Pro 180 185 190
- Ser Gln Glu Tyr Val Ala Ser Glu Gly Glu Glu Asp Pro Glu Val Glu 195 200 205
- Phe Leu Lys Ser Leu Thr Thr Lys Gln Lys Gln Lys Leu Leu Arg Lys 210 220
- Leu Asp Arg Leu Glu Lys Lys Lys Lys Lys Lys Asp Arg Lys Lys Lys 225 230 235 240
- Lys Phe Gln Lys Ser Arg Ser Lys His Lys Lys His Lys Ser Ser Ser 245 250 255
- Ser Ser Ser Glu Ser Glu Ser Asn Asn Lys Glu Lys Lys Ile Gln Arg 275 280 285
- Lys Lys Arg Lys Lys Asn Lys Cys Ser Gly His Asn Asn Ser Asp Ser 290 295 300
- Glu Glu Lys Asp Lys Ser Lys Lys Arg Lys Leu His Glu Glu Leu Ser 305 310 315 320
- Ser Ser His His Asn Arg Glu Lys Ala Lys Glu Lys Pro Arg Phe Leu 325 330 335

Lys His Glu Ser Ser Arg Glu Asp Ser Lys Trp Ser His Ser Asp Ser 340 345 350

Asp Lys Lys Ser Arg Thr His Lys His Ser Pro Glu Lys Arg Gly Ser 355 360 365

Glu Arg Lys Glu Gly Ser Ser Arg Ser His Gly Arg Glu Glu Arg Ser 370 375 380

Arg Arg Ser Arg Ser Arg Ser Pro Gly Ser Tyr Lys Gln Arg Glu Thr 385 390 395 400

Arg Lys Arg Ala Gln Arg Asn Pro Gly Glu Glu Gln Ser Arg Asn 405 410 415

Asp Ser Arg Ser His Gly Thr Asp Leu Tyr Arg Gly Glu Lys Met Tyr 420 425 430

Arg Glu His Pro Gly Gly Thr His Thr Lys Val Thr Gln Arg Glu 435 440 445

<210> 1721

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1721

Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu 1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg 20 25. 30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His, Thr

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro 50 55 60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile 65 70 75 80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr 85 90 95

Val Xaa Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu 100 105 110

Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu 115 120 125

Ile Ser Leu Ile Trp Xaa Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr 130 135 140

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser 145 150 155 160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn 165 170 175

Phe

<210> 1722

<211> 227

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1722

Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg 20 25 30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr 35 40 45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro 50 55 60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile 65 70 75 80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr 85 90 95

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu 100 105 110

- Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu 115 120 125
- Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr 130 135 140
- Lys Gln Leu Pro His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser 145 150 155 160
- Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Val Lys Glu Lys Asn 165 170 175
- Phe Val Gly Gln Ile Leu Val Phe Val Leu Leu Tyr Ser Ser Leu Tyr 180 185 190
- Ser Thr Tyr Leu Trp Thr Gly Leu Leu Ala Ile Ser Leu Phe Leu Leu 195 200 205
- Lys Lys Arg Glu Arg Val Gln Ile Pro Val Gly Ile Ile Ile Ser 210 215 220

Gly Trp Gly 225

<210> 1723

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1723

- Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu 1 5 10 15
- Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg 20 25 30
- Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr 35 40 45
- Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
  50 55 60
- Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile 65 70 75 80
- Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr 85 90 95
- Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu 100 105 110
- Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu 115 120 125

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr 135

Lys Gln Leu Pro His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser 145 150

Ile Val Cys Ala Gly Met Met Ile Trp Asn Phe Val Lys Glu Lys Asn 170

Phe Val Gly Gln Ile Leu Val Phe Val Leu Leu Tyr Ser Ser Leu Tyr · 185

Ser Thr Tyr Leu Trp Thr Gly Leu Leu Ala Ile Ser Leu Phe Leu Leu 200

Lys Lys Arg Glu Arg Val Gln Ile Pro Val Gly Ile Ile Ile Ser 220 215

Gly Trp Gly 225

<210> 1724

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1724

Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly 10

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser

Pro Asp Gly Pro Ala Ser Pro Thr Phe Gly Ala Arg Xaa Pro Ala Trp 55

Gly Gly Ile Arg Ala Val Val Ala Cys Asn Arg Arg Gly Thr Gly Gln 75

Arg Xaa Thr Arg Ala Lys Leu

WO 01/77137 <211> 146 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (115) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (123) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (140) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1725 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Arg Leu Gly Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly Pro Ala Asn Trp Gly Tyr Val Leu Gly Arg Pro Gly Arg Gly Pro Asp 110 105 Glu Tyr Xaa Glu Ala Ala Thr Ala Ala Pro Xaa Leu Arg Asn Leu Arg 125 120 Ala Arg Cys Pro Glu Leu Ala Arg Gly Met Val Xaa Phe Trp Ala Thr

Thr Leu 145

<210> 1726 <211> 405 <212> PRT <213> Homo sapiens

<400> 1726 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly 20 25 30

- Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser 35 40 45
- Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly 50 55 60
- Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala 65 70 75 80
- Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly
  85 90 95
- Pro Ala Asn Trp Gly Tyr Val Leu Gly Gly Arg Gly Arg Gly Pro Asp 100 105 110
- Glu Tyr Glu Lys Arg Tyr Ser Gly Ala Phe Pro Pro Gln Leu Arg Ala 115 120 125
- Gln Met Arg Asp Leu Ala Arg Gly Met Phe Val Phe Gly Tyr Asp Asn 130 135 140
- Tyr Met Ala His Ala Phe Pro Gln Asp Glu Leu Asn Pro Ile His Cys 145 150 155 160
- Arg Gly Arg Gly Pro Asp Arg Gly Asp Pro Ser Asn Leu Asn Ile Asn 165 170 175
- Asp Val Leu Gly Asn Tyr Ser Leu Thr Leu Val Asp Ala Leu Asp Thr 180 185 190
- Leu Ala Ile Met Gly Asn Ser Ser Glu Phe Gln Lys Ala Val Lys Leu 195 200 205
- Val Ile Asn Thr Val Ser Phe Asp Lys Asp Ser Thr Val Gln Val Phe 210 215 220
- Glu Ala Thr Ile Arg Val Leu Gly Ser Leu Leu Ser Ala His Arg Ile 225 230 235 240
- Ile Thr Asp Ser Lys Gln Pro Phe Gly Asp Met Thr Ile Lys Asp Tyr 245 250 255
- Asp Asn Glu Leu Leu Tyr Met Ala His Asp Leu Ala Val Arg Leu Leu 260 265 270
- Pro Ala Phe Glu Asn Thr Lys Thr Gly Ile Pro Tyr Pro Arg Val Asn 275 280 285
- Leu Lys Thr Gly Val Pro Pro Asp Thr Asn Asn Glu Thr Cys Thr Ala 290 295 300
- Gly Ala Gly Ser Leu Leu Val Glu Phe Gly Ile Leu Ser Arg Leu Leu 305 310 315 320
- Gly Asp Ser Thr Phe Glu Trp Val Ala Arg Arg Ala Val Lys Ala Leu 325 330 335

Trp Asn Leu Arg Ser Asn Asp Thr Gly Leu Leu Gly Val Ala Pro Phe 340 345 350

Leu Ala Ile Gly Thr Ala His Cys Leu Val Pro Phe Ser Phe His Leu 355 360 365

Leu Trp Ala Leu Pro Pro Phe Tyr Ser Ser Thr Gln Leu Thr Thr Gln 370 375 380

Gln Glu Leu Cys Gln Leu Tyr Leu Ile Ser Leu Cys Asp Pro Leu Gln 385 390 395 400

Arg Gly Cys Met Val 405

<210> 1727

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

. <222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1727

Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly
1 5 10 15

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val 20 25 30

Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln
50 55 60

Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile 65 70 75 80

Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu 85 90 95

Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly 100 105 110

Met Ile His Xaa Gly Pro Leu Xaa 115 120

<210> 1728

<211> 53 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1728

Lys Tyr Ser Tyr Cys Ser His Leu His Phe Xaa Met Asn Glu Ser Ala

Leu Phe Cys Ser Asn Phe His Trp Lys Pro Val Gly Ser Glu Arg Leu 25

Trp Pro Pro Leu Ile Ile Tyr Asp Leu Lys Pro Ala Cys Asn Arg Glu 40

Pro Leu Gln Ser Leu 50

<210> 1729

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1729

Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly 10

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val 25 ·

Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro

Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln 55

Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile 70

Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu 85 90

Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly 100

Met Ile His Trp Gly Pro Leu Leu 115

<210> 1730

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1730

Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp 1 5 10 15

- Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu 20 25 30
- Leu Cys Arg Arg Val Leu Arg Glu Glu Glu His Lys Thr Lys 35 40 45
- Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu 50 55 60
- Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile 65 70 75 80
- Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala 85 90 95
- Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr 100 105 110
- Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe 115 120 125
- Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe 130 135 140
- Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met 145 150 155 160
- Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro 165 170 175
- Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val 180 185 190
- Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met 195 200 205
- Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp 210 215 220
- Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu 225 230 235 240
- Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser 245 . 250 . 255
- Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr 260 265 265
- Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu 275 280 285
- Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu 290 295 300

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr 305 310 315 320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp 325 330 335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly 340 345 350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu 355 360 365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile 370 375 380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala 385 . 390 395 400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala 405 410 415

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg 420 425 430

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val 435 440 445

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr 450 455 460

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala 465 470 475 480

Arg Arg His Arg Ser

<210> 1731

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1731

Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp

1 5 10 15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
20 25 30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Glu Glu His Lys Thr Lys
35 40 45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu 50 60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile 65 70 75 80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala 1095

90 85 Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr 105 1.00 Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe 120 Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe 135 Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met 150 Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro 165 Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val 180 Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met 200 Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp 215 210 Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu 235 Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser 245 Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr 265 Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr 315 Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp 330 Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly 345 . Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu 360 Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile 375 370

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala 395 390

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala

1096

410 415 405

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg 425

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val 440

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr 455

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala 475 470

Arg Arg His Arg Ser

<210> 1732

<211> 485

<212> PRT

<213> Homo sapiens

Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu 20

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Glu His Lys Thr Lys

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr 100

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe 120

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe 135 140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met 155 150 .

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro 170

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val 185 180

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met 200 Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu 230 Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser 250 Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu 280 Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala 395 Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala 410 Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg 420 His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Pro Lys Val Val 440 Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr 450 . 455 Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala 475 470

Arg Arg His Arg Ser

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<210> 1733
<211> 65
<212> PRT
<213> Homo sapiens
<400> 1733
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val
            20
Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp
                           40
Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
                        55
Met
<210> 1734
<211> 65
<212> PRT
<213> Homo sapiens
<400> 1734
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
                                   10
Leu Leu Val Val Leu Leu Gly Val Thr Leu Phe Ile Thr Val
                              25 ·
Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp
                            40
Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
                       55
Met
 65
<210> 1735
<211> 342
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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1099

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (271)

Glu Ser His Ala Ala Ser Asn Asp Pro Arg Asn Phe Val Pro Asn Lys 20 25 30

Met Trp Lys Gly Leu Val Lys Arg Asn Ala Ser Val Glu Thr Val Asp 35 40 45

Asn Lys Thr Ser Glu Asp Val Thr Met Ala Ala Ala Ser Pro Val Thr 50 55 60

Leu Thr Lys Gly Thr Ser Ala Ala His Leu Asn Ser Met Glu Val Thr 65 70 75 80

Thr Glu Asp Thr Ser Arg Thr Asp Val Ser Glu Pro Ala Thr Ser Gly 85 90 95

Gly Ala Ala Asp Gly Val Thr Ser Ile Ala Pro Thr Ala Val Ala Ser 100 105 110

Ser Thr Thr Ala Ala Ser Ile Thr Thr Ala Ala Ser Ser Met Thr Val 115 120 125

Ala Ser Ser Ala Pro Thr Thr Ala Ala Ser Ser Thr Thr Val Ala Ser 130

Ile Ala Pro Thr Thr Xaa Ala Ser Ser Met Thr Ala Ala Ser Ser Thr 145 150 150 160

Pro Met Thr Leu Ala Leu Pro Ala Pro Thr Ser Thr Ser Thr Gly Arg 165 170 175

Thr Pro Ser Thr Thr Ala Thr Gly His Pro Ser Leu Ser Thr Ala Leu 180 185 190

Ala Gln Val Pro Lys Ser Ser Ala Leu Pro Arg Thr Ala Thr Leu Ala 195 200 205

Thr Leu Ala Thr Arg Ala Gln Thr Val Ala Thr Thr Ala Asn Thr Ser 210 220

Ser Pro Met Ser Thr Arg Pro Ser Pro Ser Lys His Met Pro Ser Asp 225 230 235 235

Thr Ala Ala Ser Pro Val Pro Pro Met Arg Pro Gln Ala Gln Gly Pro 245 250 255

Ile Ser Gln Val Ser Val Asp Gln Pro Val Val Asn Thr Thr Xaa Lys 260 265 270

Ser Thr Pro Met Pro Ser Asn Thr Thr Thr Glu Pro Leu Thr Gln Ala 275 280 285

Val Val Asp Lys Thr Leu Leu Leu Val Val Leu Leu Gly Val Thr 290 295 300

Leu Phe Ile Thr Val Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser 1100 PCT/US01/11988

305 310 315 320

Tyr Lys Lys Lys Asp Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met 325 330 335

Tyr Ala Asp Ser Glu Met 340

<210> 1736

WO 01/77137

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1736

Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu
1 5 10 15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu 20 ·25 . 30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp 35 40 45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu 50 55 60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Xaa Gln Leu Pro Gly Cys 65 70 75 80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp 85 90 95

<210> 1737

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1737

Gly Leu Gly Pro Gly Ile Pro Met Cys Phe Gln Gln Trp Thr Thr Cys
1 5 10 15

Ser Glu Val Leu Val Cys Ala Ser Pro Val Ser Val Val Asp Lys Thr 20 25 30

Asp Gly Arg Phe Arg Gly Ser Thr Pro His Thr Cys Lys Leu Asp Arg 35 . 40 45

Ala Gln Lys Leu Val Lys Asp Ile Trp Arg Cys Cys Ala Gly Gln Phe 1101

50 55 60

Ala Pro Leu Ser Leu Arg Ser Met Val Phe His Asn Ala Pro Ile 65 70 75

<210> 1738

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1738

Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu
1 5 10 15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu 20 25 30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp 35 40 45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu 50 55 60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Cys Gln Leu Pro Gly Cys 65 70 75 80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp 85 90 95

<210> 1739

<211> 162

<212> PRT

<213> Homo sapiens

<220> .

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1739 Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys 25 Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly 55 Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe 70 Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln 90 85 Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln 105 100 Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu 120 115 Val Met Leu Pro Val Xaa Phe Thr Asn Asn Leu Asp Val Xaa Ser Ser 135 Tyr Val Gln Asp Gln Ser Glu Arg Leu Xaa Ile Phe Lys Tyr Ile Cys 155 150 Xaa Asp <210> 1740 <211> 228 <212> PRT <213> Homo sapiens Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln

90

85

Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln 100 105 110

Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu 115 120 125

Val Met Leu Pro Val Trp Phe Thr Asn Asn Leu Asp Val Val Ser Ser 130 135 140

Tyr Val Gln Asp Gln Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Val 145 150 155 160

Pro Thr Glu Asp Asp Ile Arg Asp Ser Gly Gly Pro Lys Pro Val Met 165 170 175

Val Tyr Ile His Gly Gly Ser Tyr Met Glu Gly Thr Gly Asn Leu Tyr 180 185 190

Asp Gly Ser Val Leu Ala Ser Tyr Gly Asn Val Ile Val Ile Thr Val 195 . . 200 205

Asn Tyr Arg Leu Gly Val Leu Gly Lys Lys Ser Leu Ser Phe Val Phe 210 215 220

Thr Met Asn Pro 225

<210> 1741

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1741

Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Pro

1 5 10 15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser 20 25 30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu 35 40 45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His 50 55 60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser 65 70 75 80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly 85 90

<210> 1742 '

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1742

Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Pro

1 5 10 15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser 20 25 30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu .35 40 45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His 50 55 60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser 65 70 75 80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly 85 90

<210> 1743

<211> 5.7

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743

Met Arg Thr Asp Tyr Pro Arg Xaa Xaa Arg Ser Cys Leu Cys Val Ser 1 5 10 15

Leu Ser Pro Pro Leu Val Ser Lys Gly Ser His Arg Ser Arg Trp Leu 20 25 30

Arg Thr Met Ala Val Pro Ala Gly Thr Gln Val Trp Arg Gln Asp Leu 35 40 45

Gln Pro Leu Gly Ala Val Leu Leu Gln
50 55

<210> 1744

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1744

Met Arg Thr Asp Tyr Pro Arg Ser Val Leu Ala Pro Ala Tyr Val Ser

1 5 10 15

Val Cys Leu Leu Leu Cys Pro Arg Glu Val Ile Ala Pro Ala Gly
20 25 30

Ser Glu Pro Trp Leu Cys Gln Pro Ala Pro Arg Cys Gly Asp Lys Ile 35 40 45

Tyr Asn Pro Leu Glu Gln Cys Cys Tyr Asn Asp Ala Ile Val Ser Leu
50 55 60

Ser Glu Thr Arg Gln Cys Gly Pro Pro Cys Thr Phe Trp Pro Cys Phe 65 70 75 80

Glu Leu Cys Cys Leu Asp Ser Phe Gly Leu Thr Asn Asp Phe Val Val 85 90 95

Lys Leu Lys Val Gln Gly Val Asn Ser Gln Cys His Ser Ser Pro Ile 100 105 110

Ser Ser Lys Cys Glu Ser Arg Arg Arg Phe Pro 115 120

<210> 1745

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1745

Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu
1 5 10 15

Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly
20 25 30

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser 50 55 60

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly 65 70 75 80

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro 95

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe 100 105

<210> 1746

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1746

Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu

10 1

Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly 25

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser 55

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly 75

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe 100

<210> 1747

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1747

Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu

Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu 20 -

Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys 40

Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn 55 60

Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly

Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala

Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr 105 110

Cys Phe Pro Ala Phe Gln Arg Trp · 120 115

<210> 1748

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> 'Xaa equals any of the naturally occurring L-amino acids

Asp Val Leu Gln Ile Thr Phe Trp Trp Pro Leu Val Thr Ala Val Ser

Leu Gln Gly Leu Asn Lys Xaa Leu Ser Pro Ile Pro Phe His Thr Cys

Val Val Tyr Tyr Trp Gln Ala Ser Val Leu Arg Val Ser Asn Gly Thr 40

Asp Gly Cys Gln Thr Leu Trp Ile Ser Ala Ser Pro Gly Trp 55

<210> 1749

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1749

Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu

Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu 25

. Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys 40

Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn . 55

Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly 75

Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala 90

Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr 100 105

Cys Phe Pro Ala Phe Gln Arg Trp 120 115

<210> 1750

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1750

Met Asp Asp Phe Leu Phe Ser Val Ser Ile Leu Ser Gly Ile Leu Cys 15

Ser Ile Leu Ala Val Leu Lys Phe Met Leu Gly Lys Val Leu Thr Ser

- Arg Ala Leu Ile Thr Asp Gly Phe Asn Ser Leu Val Gly Gly Val Met 35 40
- Gly Phe Ser Ile Leu Leu Ser Ala Glu Val Phe Lys His Asp Ser Ala 50 55 60
- Val Trp Tyr Leu Asp Gly Ser Ile Gly Val Leu Ile Gly Leu Thr Ile 65 70 75 80
- Phe Ala Tyr Gly Val Lys Leu Leu Ile Asp Met Val Pro Arg Val Arg 85 90 95
- Gln Thr Arg His Tyr Glu Met Phe Glu 100 105

<210> 1751

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> SITE .

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1751

Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile 1 5 10 15

- Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu 20 25 30
- Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
  35 40 45
- Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val 50 55 60
- Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg
  65 70 75 80
- Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn 85 90 95
- Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
  100 105 110
- Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys 115 120 125

Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile 130 135 140

Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr 145 150 150 160

Phe Leu Ser İle Leu Xaa Ser Leu Trp Ile Val Met Ser Leu Asn Val 165 170 175

Ser Leu Leu Pro Leu Ala Leu His Ser 180 185

<210> 1752

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1752

Val Leu Ser Leu Ile Ile Phe Leu Thr Thr Leu Phe Tyr Leu Leu Ser

1 5 10 15

Ser Ser Asp Glu Tyr Tyr Lys Pro Val Lys Trp Val Ile Ser Leu Thr

Pro Leu Ser Gln Pro Gly Pro Ser Ser Asn Ile Ile Gly Gln Ser Val 35 40 45

Glu Glu Ala Ile Arg Gly Val Phe Asp Ala Ser Leu Lys Met Ala Gly . 50 55 60

Phe Tyr Gly Leu Tyr Thr Trp Leu Thr His Thr Met Phe Gly Ile Asn 65 70 75 80

Ile Val Phe Ile Pro Ser Ala Leu Ala Ala Ile Leu Gly Ala Val Pro 85 90 95

Phe Leu Gly Thr Tyr Trp Ala Ala Val Pro Ala Val Leu Asp Leu Trp 100 105 110

Leu Thr Gln Gly Leu Gly Cys Lys Ala Ile Leu Leu Leu Ile Phe His 115 120 125

Leu Leu Pro Thr Tyr Phe Val Asp Thr Ala Ile Tyr Ser Asp Ile Ser 130 135 140

Gly Gly Gly His Pro Tyr Leu Thr Gly Leu Ala Val Ala Gly Gly Ala 145 150 155 160

Tyr Tyr Leu Gly Leu Glu Gly Ala Ile Ile Gly Pro Ile Leu Cys165 170 175

Ile Leu Val Val Ala Ser Asn Ile Tyr Ser Ala Met Leu Val Ser Pro 180 185 190

Thr Asn Ser Val Pro Thr Pro Asn Gln Thr Pro Trp Pro Ala Gln Pro

Gln Arg Thr Phe Arg Asp Ile Ser Glu Asp Leu Lys Ser Ser Val Gly

210 215 220

<210> 1753 <211> 424 <212> PRT <213> Homo sapiens .<220> <221> SITE <222> (138) <223> Xaa equals any of the naturally occurring L-amino acids <221> SITE <222> (183) <223> Xaa equals any of the naturally occurring L-amino acids Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu 25 Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu 40 Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg . 70 Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn. Asn Thr Ala Val' Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys 120 Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile 130 Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr Phe Leu Ser Ile Leu Glu Ser Leu Trp Ile Val Met Ser Arg Asn Val 170 Ser Leu Leu Phe Thr Thr Xaa Thr Thr Leu Leu Thr Ile Leu Phe Tyr 190 185 Ser Gly Thr Ala Leu Leu Asn Phe Val Leu Ser Leu Ile Ile Phe Leu 1111

205 200 195 Thr Thr Leu Phe Tyr Leu Leu Ser Ser Ser Asp Glu Tyr Tyr Lys Pro 215 Val Lys Trp Val Ile Ser Leu Thr Pro Leu Ser Gln Pro Gly Pro Ser 230 Ser Asn Ile Ile Gly Gln Ser Val Glu Glu Ala Ile Arg Gly Val Phe 250 Asp Ala Ser Leu Lys Met Ala Gly Phe Tyr Gly Leu Tyr Thr Trp Leu 265 Thr His Thr Met Phe Gly Ile Asn Ile Val Phe Ile Pro Ser Ala Leu 280 Ala Ala Ile Leu Gly Ala Val Pro Phe Leu Gly Thr Tyr Trp Ala Ala 295 . Val Pro Ala Val Leu Asp Leu Trp Leu Thr Gln Gly Leu Gly Cys Lys

305 310 315 320

Ala Ile Leu Leu Leu Ile Phe His Leu Leu Pro Thr Tyr Phe Val Asp 325 330 335

Thr Ala Ile Tyr Ser Asp Ile Ser Gly Gly Gly His Pro Tyr Leu Thr 340 345 350

Gly Leu Ala Val Ala Gly Gly Ala Tyr Tyr Leu Gly Leu Glu Gly Ala 355 360 365

Ile Ile Gly Pro Ile Leu Leu Cys Ile Leu Val Val Ala Ser Asn Ile 370 375 380

Tyr Ser Ala Met Leu Val Ser Pro Thr Asn Ser Val Pro Thr Pro Asn 385 390 395 400

Gln Thr Pro Trp Pro Ala Gln Pro Gln Arg Thr Phe Arg Asp Ile Ser 405 410 415

Glu Asp Leu Lys Ser Ser Val Gly 420

<210> 1754

<211> 385

<212> PRT

<213> Homo sapiens

<400> 1754

Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
1 5 10 15

Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu 20 25 30

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu 35 40 45

Ala	Asn 50	His	Pro	Glu	Trp	Ala 55	Asn	Trp	Leu	Pro	Glu 60	Ala	Gln	Val	Val
Gln 65	Arg	Ala	Leu	Asn	Ser 70	Ala	Ala	Asn	Asn	Val 75	Tyr ·	Gln	Tyr	Gly	Arg 80
Glu	Trp	Įle	Thr	His 85	Lys	Leu	His	Lys	Ile 90	Leu	Gly	Asp	Lys	Val 95	Asn
Asn	Thr	Ala	Val 100	Ile	Glu	Lys	Gln	Val 105	Leu	Glu	Leu	Trp	Asp 110	Arg	Leu
Tyr	His	Ser 115	Trp	Phe ·	Val	Lys	Asn 120	Val	Thr	His	Ser	Gly 125	Arg	His	Lys
Gly	Gln 130	Lys	Leu	His	Val	Ser 135	Arg	Gln	Asn	Ser	Trp 140	Leu	Gly	Asp	Ile
Leu 145	Asp	Trp	Gln	Asp	Ile 150	Val	Ser	Phe	Val	His 155	Glu	Asn	Ile	Glu	Thr 160
Phe	Leu	Ser	Ile	Leu 165	Glu	Ser	Leu	Trp	Ile 170	Val	Met	Ser	Arg	Asn 175	Val
Ser	Leu	Leu	Phe 180	Thr	Thr	Val	Thr	Thr 185	Leu	Leu	Thr	Ile	Leu 190	Phe	Tyr
Ser	Gly	Thr 195	Ala	Leu	Leu	Asn	Phe 200	Val	Leu	Ser	Leu	Ile 205	Ile	Phe	Leu
Thr	Thr 210	Leu	Phe	Tyr	Leu	Leu 215		Ser	Ser	Asp	Glu 220	Tyr	Tyr	Lys	Pro
Val 225	Lys	Trp	Val	Ile	Ser 230	Leu	Thr	Pro	Leu	Ser 235	Gln	Pro	Gly	Pro	Ser 240
Ser	Asn	Ile	Ile	Gly 245		Ser	Val	Glu	Glu 250	Ala	Ile	Arg	Gly	Val 255	Phe
Asp	Ala	Ser	Leu 260		Met	Ala	Gly	Phe 265	Tyr	Gly	Leu	Tyr	Thr 270	Trp	Leu
Thr	, His	Thr 275		: Phe	Gly	Ile	Asn 280	Ile	Val	Phe	Ile	Pro 285	Ser	· Ala	Leu
Ala	Ala 290		. Leu	ı Gly	Ala	Val 295		Phe	Leu	Gly	Thr 300		Trp	Ala	. Ala
Val 305		Ala	val	. Lev	Asp 310		1 Trp	Leu	Thr	315	Gly	Lev	Gly	Cys	320
Ala	. Ile	. Let	Let	1 Met 325		Phe	. His	Leu	330	ı Pro	Thr	туг	Phe	val 335	Asp
Thr	Ala	ı Ile	340			Ile	e Ser	Gly 345		/ Gly	r His	Pro	350	Let )	. Thr
Gly	Let	1 Ala 35		l Ala	a Gly	y Gly	7 Ser 360	: Ile	e Lev	ı Pro	Arg	365	Gl <sub>3</sub>	y Arg	g Ser

Asn His Arg Ser Tyr Ser Ser Leu His Thr Cys Gly Cys Phe Gln Tyr

Leu 385

<210> 1755

<211> 293

<212> PRT

<213> Homo sapiens

<400> 1755

Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu

Leu Val Ala Glu Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala

Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu , 35

Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu

Gly Val Lys Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr

Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg

Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe 105

Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys 125 120

Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe

Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro 155 150

Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser 170

Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu 185

Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala 200

Gly Glu Leu Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu 215

Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala 230 225

Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu 265

Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu 280

Gln Ala Asn Ser Thr

<210> 1756

<211> 566

<212> PRT

<213> Homo sapiens

<400> 1756

Met Gln Val Val Ser His Gly Asp Glu Arg Pro Ala Trp Leu Met Ser

Glu Thr Leu Arg His Leu His Thr His Phe Gly Ala Asp Tyr Asp Trp 20

Phe Phe Ile Met Gln Asp Asp Thr Tyr Val Gln Ala Pro Arg Leu Ala

Ala Leu Ala Gly His Leu Ser Ile Asn Gln Asp Leu Tyr Leu Gly Arg 55 50

Ala Glu Glu Phe Ile Gly Ala Gly Glu Gln Ala Arg Tyr Cys His Gly

Gly Phe Gly Tyr Leu Leu Ser Arg Ser Leu Leu Leu Arg Leu Arg Pro 90

His Leu Asp Gly Cys Arg Gly Asp Ile Leu Ser Ala Arg Pro Asp Glu 105

Trp Leu Gly Arg Cys Leu Ile Asp Ser Leu Gly Val Gly Cys Val Ser 120

Gln His Gln Ala Gln Ile Arg Asn Leu Thr Val Leu Thr Pro Glu Gly

Glu Ala Gly Leu Ser Trp Pro Val Gly Leu Pro Ala Pro Phe Thr Pro 155 145

His Ser Arg Phe Glu Val Leu Gly Trp Asp Tyr Phe Thr Glu Gln His 170

Thr Phe Ser Cys Ala Asp Gly Ala Pro Lys Cys Pro Leu Gln Gly Ala

Ser Arg Ala Asp Val Gly Asp Ala Leu Glu Thr Ala Leu Glu Gln Leu 200

Asn Arg Arg Tyr Gln Pro Arg Leu Arg Phe Gln Lys Gln Arg Leu Leu

•	210					215					220				-
Asn 225	Gly	Tyr	Arg	Arg	Phe 230	Asp	Pro	Ala	Arg	Gly 235	Met	Glu	Tyr	Thr	Leu 240
Asp	Pro	Gly	Ser	Thr 245	His	Ala	Ser	Glu	Arg 250	Gly	His	Arg	Arg	Ala 255	Leu
Ala	Arg	Arg	Val 260	Ser	Leu	Leu	Arg	Pro 265	Leu	Ser	Arg	Val	Glu 270	Ile	Leu
Pro	Met	Pro 275		Val	Thr	Glu	Ala 280	Thr	Arg	Val	Gln	Leu 285	Val	Leu	Pro
Leu	Leu 290	Val	Ala	Glu	Ala	Ala 295	Ala	Ala	Pro	Ala	Phe 300	Leu	Glu	Ala	Phe
Ala 305	Ala	Asn	Val	Leu	Glu 310	Pro	Arg	G1u	His	Ala 315	Leu	Leu	Thr	Leu	Leu 320
Leu	Val	Tyr	Gly	Pro 325	Arg	Glu	Gly	Gly	Arg 330	Gly	Ala	Pro	Asp	9ro 335	Phe
Leu	Gly	Val	. Lys 340		Ala	Ala	Ala	Glu 345	Leu	Glu	Arg	Arg	Tyr 350	Pro	Gly
Thr	Arg	Let 355		Trp	Leu	Ala	Val 360	Arg	Ala	a Glu	l Ala	Pro 365	Ser	Gln	Va1
Arg	Leu 370		. Asp	val	. Val	Ser 375	Lys	Lys	Hi:	s Pro	780 380	. Asp	Thr	Leu	Phe
385	· .				390					. 39:	,				Arg 400
Cys	arg	g Me	t Ası	a Ala 40!	a Ile	e Ser	Gly	y Try	Gl: 41	n Ala O	a Phe	Phe	e Pro	Va]	His
Phe	e Glı	n Gl	u Ph 42		n Pro	Ala	a Lei	u Se:	r Pr	o Gl	n Arg	g Sei	43	o Pro O	Gly
Pro	o Pro	G1 43		a Gl	y Pro	) Ası	Pro 44	o Pr	o Se	r Pr	o Pr	Gl;	y Al	a As <sub>l</sub>	p Pro
	45	0				45	5				40	٠,			r Ala
46	5				47	0				. 4.7	3				g Leu 480
Al	a Gl	у G]	u Le	u Al 48	a G1	y Gl	n Gl	u Gl	u Gl 49	.u Gl 0	u Al	a Le	u Gl	u Gl 49	y Leu 5
G1	u Va	1 Me	et As 50		l Ph	e Le	u Ar	g Ph 50	ie Se )5	er Gl	y L∈	u Hi	s Le 51	u Ph .0	e Arg
Al	a Va		lu Pi 15	co Gl	ly Le	u Va	1 G1 52	n Ly	rs Pl	ne Se	er Le	eu Ar 52	g As 25	зр Су	s Ser
Pr	o Ar	rġ L	eu Se	er GJ	lu Gl	u Le	eu Ty	yr Hi	is A: 111		ys Ai	g Le	eu Se	er As	sn Leu
										-					

530 535 540

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln 545 550 555 560

Glu Gln Ala Asn Ser Thr 565

<210> 1757

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE .

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (241)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (246)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1757

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu 1 5 10 15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu 20 25 30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala 35 40 45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp 50 55 60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe 65 70 75 80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro 85 90 95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr 100 105 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu 115 120 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe 130 135 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val 145 150 155 160

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr 170 165

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile 185

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr 200

His Asp Pro Tyr Ala Lys Ala Ile Leu Asn Ser Ala Xaa Ser Tyr Phe

Thr Val Val Gln Leu Leu Tyr His Ser Asp Ile Phe Phe Lys Phe Ser 235 230 .

Xaa Gln Gly Tyr Arg Xaa Pro Glu Leu 245

<210> 1758

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1758

Ala Gln Gly His Pro Trp Ser Val Arg Thr Gln Leu Pro Arg Ile Pro

Arg Pro Ser Pro Met Thr Leu Gly Pro Gln Ile Leu Ile Cys His Ser 25

Gly Ser Ala Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met

Ile Glu Leu Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val 55

Thr Pro Asp Pro Thr Arg Pro Leu Thr Xaa Pro Asn His Phe Ile Leu

65

70 . 75

Lys Pro Lys Asn Gly Met Tyr Xaa Xaa Leu Xaa Lys Leu Ser Glu Cys 85 90 95

<210> 1759 <211> 249 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (242) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE · <222> (247) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (248) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1759 Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe 65. Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro 90 Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr 105 Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu 120 Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe 135

155 ,

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val

150

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr 165

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile 185

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr

His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe 215

His Arg Leu Tyr Ser Cys Cys Ile Thr Val Thr Tyr Phe Ser Asn Ser 230

Ala Xaa Arg Val Thr Val Xaa Xaa Ser . 245

<210> 1760

<211> 509

<212> PRT

<213> Homo sapiens

<400> 1760

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu 

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp . 55

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro 90

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr 105 100

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu 120

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe 135

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val 155 150

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr 175 . . 170 165

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile 185 Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr 200 His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe His Arg Leu Tyr Ser Leu Leu Tyr His Ser Asp Ile Ile Phe Lys Leu Ser Pro Gln Gly Tyr Arg Phe Gln Lys Leu Ser Arg Val Leu Asn Gln Tyr Thr Asp Thr Ile Ile Gln Glu Arg Lys Lys Ser Leu Gln Ala Gly 265 Val Lys Gln Asp Asn Thr Pro Lys Arg Lys Tyr Gln Asp Phe Leu Asp Ile Val Leu Ser Ala Lys Asp Glu Ser Gly Ser Ser Phe Ser Asp Ile 295 Asp Val His Ser Glu Val Ser Thr Phe Leu Leu Ala Gly His Asp Thr 315 Leu Ala Ala Ser Ile Ser Trp Ile Leu Tyr Cys Leu Ala Leu Asn Pro 330 Glu His Gln Glu Arg Cys Arg Glu Glu Val Arg Gly Ile Leu Gly Asp 345 Gly Ser Ser Ile Thr Trp Asp Gln Leu Gly Glu Met Ser Tyr Thr Thr 360 365 Met Cys Ile Lys Glu Thr Cys Arg Leu Ile Pro Ala Val Pro Ser Ile 375 . 380 Ser Arg Asp Leu Ser Lys Pro Leu Thr Phe Pro Asp Gly Cys Thr Leu 395 385 390 Pro Ala Gly Ile Thr Val Val Leu Ser Ile Trp Gly Leu His His Asn 405 410 -Pro Ala Val Trp Lys Asn Pro Lys Val Phe Asp Pro Leu Arg Phe Ser 420 425 Gln Glu Asn Ser Asp Gln Arg His Pro Tyr Ala Tyr Leu Pro Phe Ser 440 Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met Ile Glu Leu Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val Thr Pro Asp 475

490

495 ·

Pro Thr Arg Pro Leu Thr Phe Pro Asn His Phe Ile Leu Lys Pro Lys

Asn Gly Met Tyr Leu His Leu Lys Lys Leu Ser Glu Cys 505

<210> 1761 <211> 143 <212> PRT <213> Homo sapiens

<400> 1761 .

Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr

Phe Gly Arg Thr Ilé Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala 35 40

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu

Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn 105

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys 120

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val 135

<210> 1762

<211> 143

<212> PRT

<213> Homo sapiens

Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr 10

Phe Gly Arg Thr Ile Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile 20

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala 40

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys .50

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu 75 70

Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg 85

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn 105

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys , 120

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val 135

<210> 1763

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1763

Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys 5 10 15

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe 45 35 . 40

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr 70 75

Leu Leu Ser Pro Pro Ser Pro Gly 85

<210> 1764

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1764

Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys 10

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp 25

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys 55

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr

65 70 75 80

Leu Leu Ser Pro Pro Ser Pro Gly 85

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<210> 1765
<211> 231
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids
<220> .
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (231)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1765
 Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu
 Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys
 Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe
 Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe
                          55
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Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly 70 Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu 1.05 Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser 120 Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys 135 Arg Xaa Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly 150 Gly Gly Leu Arg Gly Gly Arg Ala Ala Pro Gly His His Ala 170 Xaa Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Phe 185 180 Xaa Tyr Arg Leu Leu Kaa Arg Val Ser Lys Ser Ala Ala Leu Xaa 200 Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln 220 **215** . Phe Asn Ser Asn Lys Leu Xaa 230 225 <210> 1766 <211> 127 <212> PRT <213> Homo sapiens <400> 1766 Glu Gly Phe Phe Lys Arg Leu Phe Val Thr Ser Leu Gln Glu Ala Gly Leu Phe Leu Phe Leu Phe Phe Leu Arg Glu Gly Val Phe His Trp Cys Asn Gly Leu Ala Pro Pro Gly Pro Gly Arg Thr Ser Asp Leu Pro Ser Pro Gly Phe Leu Arg Leu Gln Asp Gln Leu Gly Arg Val Lys Arg Gly Glu Gly Val Glu Gly Gln Val Arg Ser Gln Ser Cys Pro Gly Arg Pro Pro Ser Leu Ser Thr Ser Ser Ser Arg Glu Pro Ala Ala His Thr Leu 90.

Leu Asn Ala Gly His Pro Arg Arg Leu Leu Gly Phe Glu Glu Gln Thr

100 105 110

Phe Phe Pro Gly Leu Ser Ala Phe Cys Pro Asn Phe Ile Cys Phe 115 120 125

<210> 1767

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1767

Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu
1 5 10 15

Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys
20 25 30

Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe
35 40 45

Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe
50 60

Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly 65 70 75 80

Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val

Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu 100 105 110

Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser 115 120 . 125

Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys 130 135 140

Arg Arg Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly 145 150 150 160

Gly Gly Leu Arg Gly Gly Arg Ala Ala Pro Gly His His Ala 165 170 175

Glu Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Xaa 185 180

- Ala His Arg Leu Leu Leu Arg Val Ser Lys Ala Pro Arg Leu Pro .200
- Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln
- Ser Thr Pro Ile Thr Glu Leu Lys Phe Leu Xaa Lys Lys Lys Ile 230

<210> 1768

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1768

Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val

Ile Trp Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe 55 .

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile

Pro Ala Leu Trp Glu Ala Glu Ala Ala Asp Gln Leu Arg Leu Gly Val 90

<210> 1769

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1769

Leu Tyr Gln Glu Lys Pro Leu Met Trp Pro Arg Thr Ser Leu Leu Tyr

Val Val Pro Arg Trp Leu Leu Pro Cys Ser Ser Leu Pro Cys Pro Leu 25 20

Pro Glu Ile Lys Asn Ser Leu Thr Glu Lys Lys Lys Lys Lys Lys

45

40 35

Asn Lys Lys Lys Lys Gly Arg Pro 50

<210> 1770

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1770

Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val

Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile 75

Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Ala Glu Val Arg Ser 90

Leu Arg Pro Ala Trp Pro Thr Trp 100

<210> 1771

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

. <222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221>.SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (198) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (200) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (206) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1771 Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val 40 Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val 55 Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg <sup>,</sup> 75 Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu 105 Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile 120 Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile 135 Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro 150 Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Xaa 170 165 Ile Thr Met Xaa Phe Cys Cys Thr Thr Trp Leu Xaa Xaa Thr Leu Trp Pro Gln Leu Phe Ser Xaa Tyr Xaa Leu Phe Asp Ser Asp Xaa 205 195 200

<210> 1772 <211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772

Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Xaa Gly Ile Leu Ala Glu 55

Gln Phe Val Pro Asp Gly Pro His Leu His Leu Tyr His Glu Asn His

Trp Ile Lys Leu Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe 90 85

Ala Val Ser Gly Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val 105 100

Pro Leu Gly Val Asp Arg Leu Val Met Ala Val Ala Val Phe Met Glu 120

Gly Phe Leu Phe Tyr Tyr His Val His Asn Arg Pro Pro Leu Asp Gln

His Ile His Ser Leu Leu Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser 155 · 150

Ile Ser Leu Glu Val Ile Phe Arg Asp His Ile Val Leu Glu Leu Phe 170 165

Arg Thr Ser Leu Ile Ile Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly 185

Phe Val Leu Phe Pro Pro Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp

Asp Ala Asn Leu Met Phe Ile Thr Met Cys Phe Cys Trp His Tyr Leu 215

Ala Ala Leu Ser Ilè Val Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu

Leu Thr Arg Met Lys Arg His Gly Arg Gly Glu Ile Ile Gly Ile Gln 250

Lys Leu Asn Ser Asp Asp Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser 270 265

Asp Glu Glu 275

<210> 1773

<211> 237

<212> PRT

<213> Homo sapiens

<400> 1773

Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val 55

Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg

Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr 90

His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu 105 . 100

Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile . 125 120

Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile 135

Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro 150

Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Phe 165

Ile Thr Met Cys Phe Cys Trp His Tyr Leu Ala Ala Leu Ser Ile Val 185 180

Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu Leu Thr Arg Met Lys Arg . 195

His Gly Arg Gly Glu Ile Ile Gly Ile Gln Lys Leu Asn Ser Asp Asp

Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser Asp Glu Glu. 235 230

<210> 1774 <211> 69

PCT/US01/11988

WO 01/77137

<212> PRT <213> Homo sapiens

<400> 1774

Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser

Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Leu Tyr Tyr Cys 25

Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser

Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala

Gly Glu Arg Met Ala 65

<210> 1775

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1775

Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser

Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Leu Tyr Tyr Cys

Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser

Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala 55

Gly Glu Arg Met Ala 65

<210> 1776

<211> 222

<212> PRT

<213> Homo sapiens

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu 10

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys . 20

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu 40 35

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly . 1132

60 55 50 Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys 105 Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro 120 Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln 170 Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr 185 Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys Lys 220 <210> 1777 <211> 105 <212> PRT <213> Homo sapiens

<220> <221> SITE <222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

<222> (104) <223> Xaa equals any of the naturally occurring L-amino acids

Ile Leu Lys Val Leu Lys Val Trp Ser Phe Gln Leu Phe Gln Ile Ala 10

Val Cys Asp Phe Ser His Phe Tyr Leu Leu Arg Asn Ile His Lys Ile

Ile Pro Lys Met Lys Val His Phe Leu Phe Ser Pro Arg Leu Glu Arg 40 35

Gly Gly Leu Gly Cys Phe Met Arg Asn Val Phe Leu Asp Leu Arg Trp

50 55 60

Ser Gly Leu Pro Leu Leu Xaa Phe Pro Ala Phe Pro Pro His His Thr 65 70 75 80

Ala Ser Leu Gly Phe Leu Pro Val Ser Gln Asn Tyr Thr His Asp His
. 85 90 95

Pro Asn Ile Gly Ser Met Pro Xaa Leu 100 105

<210> 1778

<211>, 489

<212> PRT

<213> Homo sapiens

<400> 1778

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu 35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
50 55 60

Leu Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser 65 70 75 80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg 85 90 95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys 100 105 110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro 115 120 125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp 130 135 140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln 165 170 175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr 180 185 190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln 195 200 205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu 210 215 . 220

Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu 235 230 Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu 250 Leu Leu Ala Thr Val Ala Ser Ser Val Pro Asn Phe Lys His Phe Gly 265 Phe Tyr Arg Ser Asn Pro Glu Gln Ile Asn Glu Ile His Asn Gln Ser 280 Leu Pro Gln Glu Ile Ala Arg His Cys Met Val Gln Ala Arg Leu Leu 295 Ala Tyr Arg Thr Glu Asp His Lys Thr Gly Val Gly Ala Val Ile Trp 310 Ala Glu Gly Lys Ser Arg Ser Cys Asp Gly Thr Gly Ala Met Tyr Phe 325 Val Gly Cys Gly Tyr Asn Ala Phe Pro Val Gly Ser Glu Tyr Ala Asp 345 Phe Pro His Met Asp Asp Lys Gln Lys Asp Arg Glu Ile Arg Lys Phe 355 Arg Tyr Ile Ile His Ala Glu Gln Asn Ala Leu Thr Phe Arg Cys Gln 375 Glu Ile Lys Pro Glu Glu Arg Ser Met Ile Phe Val Thr Lys Cys Pro 395 390 385 Cys Asp Glu Cys Val Pro Leu Ile Lys Gly Ala Gly Ile Lys Gln Ile 410 Tyr Ala Gly Asp Val Asp Val Gly Lys Lys Lys Ala Asp Ile Ser Tyr Met Arg Phe Gly Glu Leu Glu Gly Val Ser Lys Phe Thr Trp Gln Leu 440 , Asn Pro Ser Gly Ala Tyr Gly Leu Glu Gln Asn Glu Pro Glu Arg Arg Glu Asn Gly Val Leu Arg Pro Val Pro Gln Lys Glu Glu Gln His Gln 475 Asp Lys Lys Leu Arg Leu Gly Ile His 485

<210> 1779

<211> 267

<212> PRT

<213> Homo sapiens

<400> 1779

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu 1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys 20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
50 55 60

Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser 65 70 75 80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg 85 90 95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys 100 105 110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro . 115 120 125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Glu Asp 130 135 140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg 145 150 155 160

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
165 170 175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr 180 185 185

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln 195 200 205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu 210 215 220

Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu 225 230 235 240

Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu 245 250 255

Leu Leu Ala Thr Val Ala Ser Met Cys Arg Leu 260 265

<210> 1780

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (169) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (171) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (172) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (174) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (179) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (191) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1780 Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu 25 20 Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu 50 Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr 75 Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu 90 Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp 105 Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val 140 135

Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Xaa Ala Leu Ala 155 Gly Gly Arg Gly Leu Leu His Thr Xaa Pro Xaa Xaa Thr Xaa Pro Gln 170 Asn Ser Xaa Pro Gly Ser Ala Cys His Ser Arg Ala Glu Thr Xaa Gly 185 Ile Gln Pro Gly 195 <210> 1781 <211> 62 <212> PRT <213> Homo sapiens <220> <221> SITE. <222> (22) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1781 His Ile Ile Ser Ala His Val Ser Phe Thr Arg Lys Leu Ile Leu Tyr 10 Ser Asn Thr Trp Gln Xaa Ala Gly Ser Arg Ala Leu Arg Val Thr Leu 20 Ala Asp Gln Ser Pro Ile Pro Pro Phe Trp Val Val Gly Ser Leu Phe 35 . Cys Pro Arg Xaa Ala Glu Ala Ser Glu Ser Leu Ser Val Pro 55 50 <210> 1782 <211> 577 <212> PRT <213> Homo sapiens <400> 1782 Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu 25 Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro

40

35

45

Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr 75 Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp 105 Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met 120 Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val 140 135 Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Tyr Ala Leu Ala 150 Gly Ala Val Gly Phe Phe Thr His Tyr Leu Leu Pro Gln Leu Arg Lys 170 Gln Leu Pro Trp Phe Cys Leu Ser Gln Pro Val Leu Lys Pro Leu Glu 185 Tyr Ser Gln Tyr Glu Val Arg Gly Ala Ala Gln Val Met Trp Phe Glu Lys Leu Tyr Ala Gly Leu Gln Cys Val Glu Lys Tyr Leu Ile Tyr Pro 215 Ala Val Val Leu Asn Ala Leu Thr Val Asp Ala His Thr Val Val Ser 235 225 His Pro Asp Lys Tyr Cys Phe Tyr Cys Arg Ala Leu Leu Met Thr Val 250 245 Ala Gly Leu Lys Leu Leu Arg Ser Ala Phe Cys Cys Pro Pro Gln Gln Tyr Leu Thr Leu Ala Phe Thr Val Leu Leu Phe His Phe Asp Tyr Pro 280 Arg Leu Ser Gln Gly Phe Leu Leu Asp Tyr Phe Leu Met Ser Leu Leu Cys Ser Lys Leu Trp Asp Leu Leu Tyr Lys Leu Arg Phe Val Leu Thr 315 310 Tyr Ile Ala Pro Trp Gln Ile Thr Trp Gly Ser Ala Phe His Ala Phe . 330 325 Ala Gln Pro Phe Ala Val Pro His Ser Ala Met Leu Phe Val Gln Ala 345 ; Leu Leu Ser Gly Leu Phe Ser Thr Pro Leu Asn Pro Leu Leu Gly Ser 360

Ala Val Phe Ile Met Ser Tyr Ala Arg Pro Leu Lys Phe Trp Glu Arg 375 Asp Tyr Asn Thr Lys Arg Val Asp His Ser Asn Thr Arg Leu Val Thr 390 Gln Leu Asp Arg Asn Pro Gly Ala Asp Asp Asn Asn Leu Asn Ser Ile 410 Phe Tyr Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp 425 Leu Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val 440 Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val Gly 455 · · Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr 470 · Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly Val Glu Glu 490 485 Asp Glu Gly Cys Cys Cys Clu Pro Gly His Leu Pro Arg Val Leu 505 Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu Ala Trp Glu Val Thr 515 Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser Ile Ser Asp Asn Asn Ala 535 Ala Ser Met Leu Gln Val Phe Asp Leu Arg Lys Ile Leu Ile Thr Tyr 545 Tyr Val Lys Val Arg Trp Ala Gly Val Ala Gly Gln Gln Gly Pro Cys 570 Gly <210> 1783 <211> 177 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (145) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (175) <223> Xaa equals any of the naturally occurring L-amino acids

<400> . 1783

Met Lys Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile 35 40 45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
50 55 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln 65 70 75 80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp 85 90 95

Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser 100 105 110

Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg 115 120 125

Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu
130 135 140

Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys 145 150 155 160

Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro 165 170 175

Ser

<210> 1784

<211> 492

<212> PRT

<213> Homo sapiens

<400> 1784

Met Lys Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala 50 55 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp

90 85 Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser 105 Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg Ala Cys Thr Ser Glu Asn Glu Glu Asn Glu Glu Asn Glu Gln Thr Glu Glu Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys 155 Val Thr Val Ile Ser Leu Cys Ser Leu Leu Gly Ala Ser Val Val Pro 170 Phe Met Lys Lys Thr Phe Tyr Lys Arg Leu Leu Leu Tyr Phe Ile Ala 185 Leu Ala Ile Gly Thr Leu Tyr Ser Asn Ala Leu Phe Gln Leu Ile Pro 200 Glu Ala Phe Gly Phe Asn Pro Leu Glu Asp Tyr Tyr Val Ser Lys Ser 215 Ala Val Val Phe Gly Gly Phe Tyr Leu Phe Phe Phe Thr Glu Lys Ile 230 Leu Lys Ile Leu Leu Lys Gln Lys Asn Glu His His Gly His Ser 250 His Tyr Ala Ser Glu Ser Leu Pro Ser Lys Lys Asp Gln Glu Glu Gly 265 Val Met Glu Lys Leu Gln Asn Gly Asp Leu Asp His Met Ile Pro Gln 280 His Cys Ser Ser Glu Leu Asp Gly Lys Ala Pro Met Val Asp Glu Lys Val Ile Val Gly Ser Leu Ser Val Gln Asp Leu Gln Ala Ser Gln Ser 315 Ala Cys Tyr Trp Leu Lys Gly Val Arg Tyr Ser Asp Ile Gly Thr Leu 330 Ala Trp Met Ile Thr Leu Ser Asp Gly Leu His Asn Phe Ile Asp Gly 345 Leu Ala Ile Gly Ala Ser Phe Thr Val Ser Val Phe Gln Gly Ile Ser 360 Thr Ser Val Ala Ile Leu Cys Glu Glu Phe Pro His Glu Leu Gly Asp Phe Val Ile Leu Leu Asn Ala Gly Met Ser Ile Gln Gln Ala Leu Phe 395 Phe Asn Phe Leu Ser Ala Cys Cys Cys Tyr Leu Gly Leu Ala Phe Gly

405 410 415

Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala 420 425 430

Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met 435 440 445

Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro 450 455 460

Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val 465 470 475 480

Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly 485 490 .

<210> 1785 ·

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1785

Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys

1 5 10 15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys 20 25 30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
35 40 45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His 50 55 60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg 65 70 75 80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala 85 90 95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe 100 105 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys 115 120 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile 130 135 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu 145 150 155 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala 165 170 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr 180 185 190

<210> 1786 <211> 192 <212> PRT <213> Homo sapiens <400> 1786 Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys 10 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys 25 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu 40 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His 55 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala 85 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe 105 100 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys 120 115 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile 135 140 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu 155 · 145 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala 170 Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr

<210> 1787

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

185

180 ·

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met-1 5 10

Ile Phe Tyr Met Val Met Cys Ile Xaa Tyr Ile Leu Tyr Gly Ile Leu 20 25 30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln
35 40 45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val 50 55 60

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln 65 70 75 80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu 85 90 95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys 100 105 110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu 115 120 125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
130 135 140

Ser Asn His Leu Ala Xaa Gly Leu Asp Asp Ile Ile Leu Ala Val Ile 145 150 155 160

Asp Ser Ile Phe Val Trp Val 165

<210> 1788

<211> 167

<212> PRT

<213> Homo sapiens

<400> 1788

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met

1 5 10 15

Ile Phe Tyr Met Val Met Cys Ile Val Tyr Ile Leu Tyr Gly Ile Leu 20 25 30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln 35 40 45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val

50 55 60...

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln 65 70 75 80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu 85 90 95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys 100 105 110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu 115 120 125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly 130 135 140

Ser Asn His Leu Ala Val Val Leu Asp Asp Ile Ile Leu Ala Val Ile 145 150 150 155 160

Asp Ser Ile Phe Val Trp Phe 165

<210> 1789

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1789

Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
1 5 10 15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln 20 25 30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser 35 40 45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala 50 55 60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg 65 70 75 80

Thr

<210> 1790

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1790

Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly

1 5 10 15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln 20 25 30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser 35 40 45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
50 55 60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg 65 70 75 80

Thr

<210> 1791

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> · .

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791

Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser 1 5 10 15

Val Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly
20 25 30

Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala 35 40 45

Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly 50  $\,$  55  $\,$  60

Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala 65 70 75 80

Leu Cys Val Pro Gln Gly Pro Asp Pro Asn Gly Phe Arg Cys Tyr Cys
85 90 95

Val Pro Gly Phe Gln Gly Pro Arg Cys Glu Leu Asp Ile Asp Glu Cys 100 105 110

Ala Ser Arg Pro Cys His His Gly Ala Thr Leu Pro Xaa Pro Gly Arg 115 120 125

Ser Leu Arg Val Pro Leu Pro Leu Gly Tyr Ala Ala Pro His Leu Asn 130 135 140

Pro Leu Ser Tyr Val Trp Gly Ile Pro His Leu Met Arg Gln Arg Leu . 150

Pro Pro Asp Gly Asp Ser Lys Ala Asn Asp Ser Lys Leu Gly Pro 170

Gln Lys Ile Tyr Ser Gly Lys 180

<210> 1792 <211> 103

<212> PRT

<213> Homo sapiens

<400> 1792

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu

Phe Leu Val Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu 75

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro 90 85

Leu Pro Glu Asn Glu Gly Ile

<210> 1793

<211> 103

<212> PRT

<213> Homo sapiens

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu 10

Phe Leu Val Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys . 20

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro 40

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu 75 70 65

Gln Tyr Pro His Pro Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro 85

Leu Pro Glu Asn Glu Gly Ile 100

<210> 1794

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1794

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val.

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu 50

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Xaa Asp Asn Ser 75 . 70

Arg Gly Ser Leu

<210> 1795

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1795

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val 10

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His 25

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser . 40 '

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Leu Asp Asn Ser 70

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Arg Gly Ser Leu ·

<210> 1796

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1796

Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile

Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser

Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro

His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe

Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala

Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro 85

His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu

Leu Val Cys Ser 115

<210> 1797

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1797

Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro 10 5

Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly

Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln 40

Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro

Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn

Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu 1150

85 90 95

Pro Pro Val Lys Arg Arg Arg Met Asn Trp Ile Asp Ala Pro Asp Asp 100 105 110

Val Phe Tyr Met Ala Thr Glu Glu Thr Arg Lys Ile Arg Lys Leu Leu 115 120 125

Ser Ser Ser Glu Thr Lys Arg Ala Ala Arg Arg Pro Tyr Lys Pro Ile 130 . 135 140

Ala Leu Arg Gln Ser Gln Ala Leu Pro Pro Arg Pro Pro Pro Pro Ala 145 150 155 160

Pro Val Asn Asp Glu Pro Ile Val Ile Glu Asp 165 170

<210> 1798

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1798

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
1 5 10 15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu 20 25 30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly 65 70 75 80

Gln

<210> 1799

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1799

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe 1 5 10 15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu 20 . 25 . 30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp 35 40 45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly

Gln

<210> 1800

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids.

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys 25

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val 55 50

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr 70

His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala 85

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys 115

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Xaa Thr Arg Thr Leu 130

Gly Gly Glu Glu Ser 145

<210> 1801

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1801 -

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp

- Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys 20 25 30
- Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn 35 40 , 45
- Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val 50 55 60
- Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
  65 70 75 80
- His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala 85 90 95
- Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr 100 105 110 .
- Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys 115 120 125
- Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Lys Thr Arg Thr Leu 130 135 140

Gly Gly Glu Glu Ser 145 .

<210> 1802

<211> 140

<212> PRT

<213> Homo sapiens

<400> 1802

- Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu Ile
  1 . 5 10 15
- Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala 20 25 30
- Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Ala Ile Gly Phe Leu 35 40 45
- Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ile Ala Gly 50 55 60
- Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val Ala Phe Tyr Leu Ala 65 70 75 . 80
- Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu Cys Phe Ile Pro Trp 85 90 95
- Ile His Ser Lys Lys Gln Arg Glu Ile Ser Lys Thr Thr Gly Lys Glu 100 105 110
- Lys Met Glu Lys Met Leu Glu Asn Gln Asn Ser Leu Leu Ser Ser Ser

115 120 125

Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile 130 135 140

<210> 1803

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1803

Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Leu
1 5 10 15

Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met
20 25 30

Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala 35 40 45

Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala 50 55.

Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile Met 65 70 75 80

Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro Ser 85 90 95

Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala Asp 100 105 110

Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys Trp

Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu Val 130 135 140

Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr Leu 145 150 155 160

Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser Leu 165 170 175

Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu Thr 180 185 , 190

Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln His 195 200 205

Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn Lys 210 215 220

Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu 225

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<210> 1804

<211> 155 <212> PRT

<213> Homo sapiens

<400> 1804

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro 10

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala · 25

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys 40

Trp Thr Thr Glu Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu 55

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser 85

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu 105

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Pro Gly Leu Asn Gln 115

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn

Lys Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu 150 145

<210> 1805

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1805

Met Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr 10

Ala Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met

Ala Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile 40

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro 55

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala 70

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys

85 90 95

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu 100 105 110

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr 115 120 125

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser 130 135 140

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu 145 150 160

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Pro Gly Leu Asn Gln 165 170 175

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn 180 185 190

Lys Leu Leu Lys Gln Lys Lys Lys Lys Lys 195 200

<210> 1806

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1806

Ala Arg Lys Pro Arg Ser Gln Ile Lys Asn Glu Ile Asn Ile Asp Thr 1 5 10 15

Leu Ala Arg Asp Glu Phe Asn Leu Gln Lys Met Met Val Met Val Thr 20 25 30

Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr Ile Leu
35 40 45

Trp Lys Gln Tyr Leu Pro Asn Val Lys Pro Asp Ser Ser Phe Lys Leu 50 60

Met Val Gln Arg Thr Thr Ala His Phe Pro His Pro Pro Gln Cys Thr 65 70 75 80

Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr Val Phe
85 90 95

Asn Pro Ile Phe Gly Lys Trp Ser Gln Val Ala Pro Pro Val Leu Lys

Arg Pro Ile Leu Gln Ser Leu Leu Leu Pro Val Met Asp Gln Asp Tyr 115 120 125

Ala Lys Val Leu Leu Leu Ile Asp Asp Glu Tyr Lys Val Thr Ala Phe 130 135 140

Pro Ala Thr Arg Asn Val Leu Arg Gln Leu His Glu Leu Ala Pro Ser 145 150 155 160

Ile Phe Phe Tyr Leu Val Asp Ala Glu Gln Gly Arg Leu Cys Gly Tyr 170 Arg Leu Arg Lys Asp Leu Thr Thr Glu Leu Ser Trp Glu Leu Thr Ile 185 Pro Pro Glu Val Gln Arg Ile Val Lys Val Lys Gly Lys Arg Ser Ser Glu His Val His Ser Gln Gly Arg Val Met Gly Asp Arg Ser Val Leu Tyr Lys Ser Leu Asn Pro Asn Leu Leu Ala Val Val Thr Glu Ser Thr Asp Ala His His Glu Arg Thr Phe Ile Gly Ile Phe Leu Ile Asp Gly Val Thr Gly Arg Ile Ile His Ser Ser Val Gln Lys Lys Ala Lys Gly 265 Pro Val His Ile Val His Ser Glu Asn Trp Val Val Tyr Gln Tyr Trp Asn Thr Lys Ala Arg Arg Asn Glu Phe Thr Val Leu Glu Leu Tyr Glu Gly Thr Glu Gln Tyr Asn Ala Thr Ala Phe Ser Ser Leu Asp Arg Pro Gln Leu Pro Gln Val Leu Gln Gln Ser Tyr Ile Phe Pro Ser Ser Ile 330 Ser Ala Met Glu Ala Thr Ile Thr Glu Arg Gly Ile Thr Ser Arg His 345 Leu Leu Ile Gly Leu Pro Ser Gly Ala Ile Leu Ser Leu Pro Lys Ala 360 Leu Leu Asp Pro Arg Arg Pro Glu Ile Pro Thr Glu Gln Ser Arg Glu 375 Glu Asn Leu Ile Pro Tyr Ser Pro Asp Val Gln Ile His Ala Glu Arg 390 Phe Ile Asn Tyr Asn Gln Thr Val Ser Arg Met Arg Gly Ile Tyr Thr 405 Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu Val Val Ala Tyr Gly Leu 420 Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser Ser Val Leu Phe Gly Leu 450 Val Phe Ala Thr Met Ile Thr Lys Arg Leu Ala Gln Val Lys Leu Leu

465

475

Asn Arg Ala Trp Arg 485

<210> 1807 <211> 360 <212> PRT

<213> Homo sapiens

<400> 1807

Met Ala Ala Glu Trp Ala Ser Arg Phe Trp Leu Trp Ala Thr Leu Leu

Ile Pro Ala Ala Ala Val Tyr Glu Asp Gln Val Gly Lys Phe Asp Trp

Arg Gln Gln Tyr Val Gly Lys Val Lys Phe Ala Ser Leu Glu Phe Ser

Pro Gly Ser Lys Lys Leu Val Val Ala Thr Glu Lys Asn Val Ile Ala

Ala Leu Asn Ser Arg Thr Gly Glu Ile Leu Trp Arg His Val Asp Lys

Gly Thr Ala Glu Gly Ala Val Asp Ala Met Leu Leu His Gly Gln Asp

Val Ile Thr Val Ser Asn Gly Gly Arg Ile Met Arg Ser Trp Glu Thr

Asn Ile Gly Gly Leu Asn Trp Glu Ile Thr Leu Asp Ser Gly Ser Phe

Gln Ala Leu Gly Leu Val Gly Leu Gln Glu Ser Val Arg Tyr Ile Ala

Val Leu Lys Lys Thr Thr Leu Ala Leu His His Leu Ser Ser Gly His 155

Leu Lys Trp Val Glu His Leu Pro Glu Ser Asp Ser Ile His Tyr Gln 170

Met Val Tyr Ser Tyr Gly Ser Gly Val Val Trp Ala Leu Gly Val Val 185

Pro Phe Ser His Val Asn Ile Val Lys Phe Asn Val Glu Asp Gly Glu 200

Ile Val Gln Gln Val Arg Val Ser Thr Pro Trp Leu Gln His Leu Ser 215

Gly Ala Cys Gly Val Val Asp Glu Ala Val Leu Val Cys Pro Asp Pro 230

Ser Ser Arg Ser Leu Gln Thr Leu Ala Leu Glu Thr Glu Trp Glu Leu 255 · . 250 245

Arg Gln Ile Pro Leu Gln Ser Leu Asp Leu Glu Phe Gly Ser Gly Phe 260 265 270

Gln Pro Arg Val Leu Pro Thr Gln Pro Asn Pro Val Asp Ala Ser Arg 275 280 285

Ala Gln Phe Phe Leu His Leu Ser Pro Ser His Tyr Ala Leu Leu Gln 290 295 300

Tyr His Tyr Gly Thr Leu Ser Leu Leu Lys Asn Phe Pro Gln Thr Ala 305 310 315 320

Leu Val Ser Phe Ala Thr Thr Gly Glu Lys Thr Val Ala Ala Val Met 325 330 335

Ala Cys Arg Asn Glu Val Gln Lys Thr Ser Ser Ser Glu Asp Gly Ser 340 345 350

Met Gly Glu Leu Phe Gly Glu Val 355 360

<210> 1808

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1808

Met Arg Gly Ile Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu 1 5 10 15

Val Val Ala Tyr Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser

Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser 35 40 45

Ser Val Leu Phe'Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu 50 55 60

Ala Gln Val Lys Leu Leu Asn Arg Ala Trp Arg
65 70 75

<210> 1809

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1809 ·

Glu Phe Gly Thr Arg Lys Glu Glu Glu Arg Val Ala Met Val Pro Arg

1 5 10 15

Leu Ala Phe Ile Leu Phe Val Leu Ala Arg Asp Tyr Asn Val Thr Ser 20 25 30

Leu Gly Gln Asp Leu Asn Trp Lys Tyr Glu Ala Lys Asp Tyr Arg Lys 35 40 45

Thr Gly Glu Leu Lys Asn Ile Gly Glu Cys Gly Arg Ser Tyr Lys Phe 50 55 60

Leu Ser Arg Asn Gln Asp Trp Asn Thr Arg Tyr Ser His Pro Asn Arg 65 70 75 80

Pro Ala Lys Tyr Ser Gly Ile Asp Glu Met Cys Lys Ala Gln Glu Ser 85 90 95

Gly Leu Ser Pro Ser Lys Gln Leu Asn Arg Leu Ser Thr Leu Thr Ala 100 105 110

Leu Lys Val Ser Gln Pro Val Lys Leu Ala Leu Phe Ser Arg Ser Pro 115 120 125

Arg Arg Glu Ile Arg Val Gly Arg 130 135

<210> 1810

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810

Gly Leu His Phe Asn Ile Arg Val Asp His Gly Met Leu Trp Ala Pro 1 5 10 15

Val Leu Tyr Lys Asp Val Gly Gln Glu Leu Pro Val Val Ser Thr Ala 20 25 30

Pro Ser His Ile Ala Leu Leu Met Glu Pro Phe Thr Pro Asp Val Leu 35 40 45

Ser Arg Leu Met Gly Arg Ile Xaa Val Cys Lys Asp Tyr Val Ile Asp 50 55 60

Gln Leu Trp Ser Val Leu Lys Glu Ile Cys Gln Trp Ile Ile Pro Tyr 65 70 75 80

Gly

<210> 1811

<211> 91

<212> PRT

<213> Homo sapiens

· <220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811

Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu

1 5 10 15

Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu 20 25 30

Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Gly Cys Phe Pro Ile 35 40 45

Ala Thr Gly Ala Pro Phe Ile Val Leu Leu Pro Leu Gly Leu Tyr Leu 50 55 60

Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg 65 70 75 80

Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile 85 90

<210> 1812

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser 1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly 35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly 50 55 60

Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu 65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val 85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser 100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala 130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr 145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg 165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu 180 185 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu 195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys 210 215 220

Ala Gln Val His Ala Val 225 230

<210> 1813

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1813

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser 1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Leu Gly 50 55 60

Pro Ser Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu 65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val 85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser 100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr

145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg 165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu 180 185 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu 195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys 210 215 220

Ala Gln Val His Ala Val Ser Cys 225 230

<210> 1814

<211> 156

<212> PRT

<213> Homo sapiens .

<400> 1814

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
1 5 10 15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser 20 25 30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
50 55 60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu 65 70 75 80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe 85 90 95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Pro Phe 100 105 110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln 115 120 125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser 130 135 140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro 145 150 155

<210> 1815

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1815

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe 1 5 10 15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser 20 25 30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
35 40 45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
50 55 60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu 65 70 75 80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe 85 90 95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Pro Phe 100 105 110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
115 120 125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser 130 135 140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr, 145 150 155 160

Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val

Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met 180 185 190

Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly
195 200 205

Asn Gln Phe Pro Ala 210

<210> 1816

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1816

Glu Cys Xaa Arg Lys Pro Thr Pro Arg Ala Glu Phe Leu Gln Pro Gly
1 5 10 15

PCT/US01/11988 WO 01/77137

Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Ala Val 20

<210> 1817

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1817

Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe ' 10

Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr 20 25

Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu 40 . •

Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly . 55

Asn Glu Pro Leu Gly Ala Ser Gly Met Phe His 70

<210> 1818

<211> 280

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1818

Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser Leu Thr Met Leu Asn

Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe Leu Ser Val

Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr Ala Tyr Thr

Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu Pro Leu Val . 55

Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly Asn Glu Pro 70 75 ·

PCT/US01/11988 WO 01/77137

Pro Trp Cys Phe Trp Asp Val Pro Leu Ile Tyr Ser Tyr Xaa Xaa Asp 90 Val Tyr Trp Asn Val Gly Phe Leu Lys Tyr Tyr Glu Leu Lys Gln Val 100 . 105 Pro Asn Phe Leu Leu Ala Ala Pro Val Ala Ile Leu Val Ala Trp Ala Thr Trp Thr Tyr Val Thr Thr His Pro Trp Leu Cys Leu Thr Leu Gly 135 140 Leu Gln Arg Ser Lys Asn Asn Lys Thr Leu Glu Lys Pro Asp Leu Gly 155 Phe Leu Ser Pro Gln Val Phe Val Tyr Val Val His Ala Ala Val Leu 170 Leu Leu Phe Gly Gly Leu Cys Met His Val Gln Val Leu Thr Arg Phe 185 Leu Gly Ser Ser Thr Pro Ile Met Tyr Trp Phe Pro Ala His Leu Leu 200 Gln Asp Gln Glu Pro Leu Leu Arg Ser Leu Lys Thr Val Pro Trp Lys 215 Pro Leu Ala Glu Asp Ser Pro Pro Gly Gln Lys Val Pro Arg Asn Pro \_ 235 230 Ile Met Gly Leu Leu Tyr His Trp Lys Thr Cys Ser Pro Val Thr Arg 250 · 245 Tyr Ile Leu Gly Tyr Phe Leu Thr Tyr Trp Leu Leu Gly Leu Leu 265 260 His Cys Asn Phe Leu Pro Trp Thr 275· <210> 1819

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1819

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr 10

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu

80 75 70 65 Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr 105 Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro His Ile Ala Leu Ala Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 140 135 Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys 150 Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr 170 Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg 185 Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg 205 200 Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 215 Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 235 225 230 Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 245 Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 270 260 Thr <210> 1820 <211> 96 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (81) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

PCT/US01/11988 WO 01/77137

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820

Met Lys Val Ala Val Ser Pro Ala Val Gly Pro Gly Pro Trp Gly Ser 10

Gly Val Gly Gly Gly Thr Val Arg Leu Leu Leu Ile Leu Ser Gly

Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val Asn Val Val Met Leu 40

Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser Gln Gln Phe Cys Tyr

Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile Trp Thr Arg Ile Gln

Xaa Arg Xaa Xaa Ser Ser Arg Leu Val Arg Val Thr Gln Val Glu Xaa 85

<210> 1821

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1821

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr 10

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu 75

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys 90

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr 105

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro

115 120 125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys 145 150 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr 165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg 180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg 195 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 225 230 235 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 245 250 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 260 265 270

Thr

<210> 1822

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1822

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile 20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu 65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys 85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr 100 105 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro 120 His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 135 Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 220 Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 230 235 Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 250 Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 260 265 Thr <210> 1823 <211> 105 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (69) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1823 Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn 10 Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys

35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val 50 55 60

Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser

65 70 75 80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His 85 90 95

Phe Asn Leu His Phe Arg Asp Thr Phe 100 105

<210> 1824

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1824

Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn 1 5 10 15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser 20 25 30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys 35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val 50 55 60

Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser 65 70 75 80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His 85 90 95

Phe Asn Leu His Phe Arg Asp Thr Phe 100 105

<210> 1825

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1825

Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
1 5 10 15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
20 25 30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro 35 40 45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu 50 55 60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys 85 90

<210> 1826

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1826

Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
1 5 10 15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly 20 25 30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro 35 40 45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu 50 60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys 85 90

<210> 1827

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1827

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile 1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly 35 40

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg 50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg 65 70 75 80

Ala Leu Met Ile Val Ĝly Ile Val Leu Gly Ala Ile Gly Leu Leu Val 85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser 100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser 115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val 130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly 145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe 165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met 180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala 195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly 210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg 225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser 245 250 255

Lys His Asp Tyr Val 260

<210> 1828

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400× 1828

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile 1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly 35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg 50 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val 85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser 100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser 115 . 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val 130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly 145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe 165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met 180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala 195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly 210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg 225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser 245 250 255

Lys His Asp Tyr Val 260

<210> 1829

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1829

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile 50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His 85 90

<210> 1830

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1830

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu

1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile 50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His 85 90 .

<210> 1831

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1831

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu

1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile 50 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 . 70 . 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1832

<211> 270

<212> PRT

<213> Homo sapiens <220> <221> SITE <222> (113) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (118) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (157) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (268) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1832 Gly Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys 5. .10 Thr Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser 25 Cys Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys 35 40 Cys Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu 55 Phe Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn 65 70 -Cys Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Xaa Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe 120 Gly Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys . 135 140 Thr Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln 155 Cys Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe

Gly Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln

195 200 205

Gly Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser 210 215 220

Pro Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe 225 230 235 240

Ser Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala 245 250 255

Cys Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser 260 265 . 270

<210> 1833

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833

Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg 1 5 10 15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser · 20 25 30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala 35 40 45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp 50 55 60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys

65 70 75 80

Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys 85 90 95

Gln Arg Gly Ala Cys Cys Glu Xaa Cys Lys Gly Cys Thr Tyr Glu Gly
100 105 110

Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys 115 120 125

Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg 130 135 140

Cys Val Xaa His Cys Lys Xaa Pro Leu Glu His Leu Gly Met Cys Cys 145 150 155 160

Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Xaa 165 170 175

Glu Glu Xaa Gln Pro Glu 180

<210> 1834

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1834

Ser Ser Ser Leu Leu Ile Ile Tyr Val Cys Met Met Asp Val Thr Ile
1 5 10 15

Tyr Met Ser Cys Val Glu Ile Lys Gly Cys Leu Asp Ala Met Leu Ile 20 25 30

Leu Leu Ser Met Arg Lys Tyr Leu Lys Lys Leu Leu His Asn Ile 35 40 45

<210> 1835

<211> 445

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (332) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (443) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1835 · Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala 40 Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys Thr Tyr Glu Gly Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg 130 Cys Val Xaa His Cys Lys Asn Pro Leu Glu His Leu Gly Met Cys Cys . 155 Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Gly Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys Thr Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser Cys Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys Cys · 215 Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu Phe 225

250

Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phé Leu Tyr Asp Asn Cys

245

PCT/US01/11988 WO 01/77137

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys 265 260 Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Kaa 280 Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly 295 Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr 315 Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys 330 Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly 345 Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly 360 355 Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly 375 Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro 390 385 Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser 405 · 410 Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys 420

<210> 1836

<211> 370

<212> PRT

<213> Homo sapiens

435

<400> 1836

Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly

Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser 440

Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly

Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg

Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu

Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile

Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr 85 90 95

Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly 100 105 110

Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro 115 120 125

Met Val Asp Val Lys Val Asp Thr Glu Asp Ile Glu Lys Lys Pro Glu 130 135 140

Ser Phe Phe Thr Gln Phe Asp Ala Val Cys Leu Thr Cys Cys Ser Arg 145 150 155 160

Asp Val Ile Val Lys Val Asp Gln Ile Cys His Lys Asn Ser Ile Lys 165 170 175

Phe Phe Thr Gly Asp Val Phe Gly Tyr His Gly Tyr Thr Phe Ala Asn 180 185 190

Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val 195 200 205

Ser Gln Gly Val Glu Asp Gly Pro Asp Thr Lys Arg Ala Lys Leu Asp 210 215 220

Ser Ser Glu Thr Thr Met Val Lys Lys Lys Val Val Phe Cys Pro Val 225 230 235 .240

Lys Glu Ala Leu Glu Val Asp Trp Ser Ser Glu Lys Ala Lys Ala Ala 245 250 255

Leu Lys Arg Thr Thr Ser Asp Tyr Phe Leu Leu Gln Val Leu Leu Lys 260 265 270

Phe Arg Thr Asp Lys Gly Arg Asp Pro Ser Ser Asp Thr Tyr Glu Glu 275 280 285

Asp Ser Glu Leu Leu Gln Ile Arg Asn Asp Val Leu Asp Ser Leu 290 295 300

Gly Ile Ser Pro Asp Leu Leu Pro Glu Asp Phe Val Arg Tyr Cys Phe 305 310 315 320

Ser Glu Met Ala Pro Val Cys Ala Val Val Gly Gly Ile Leu Ala Gln 325 330 . 335 .

Glu Ile Val Lys Ala Leu Ser Gln Arg Asp Pro Pro His Asn Asn Phe 340 345 350

Phe Phe Phe Asp Gly Met Lys Gly Asn Gly Ile Val Glu Cys Leu Gly 355 360 365

Pro Lys 370

<210> 1837

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1837

Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr 1 5 10 15

Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr 20 25 30

Val Gly Arg Pro Val Ser Asn Ile Pro Val 35

<210> 1838

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221>\SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids .

<400> 1838

Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro 1 5 10 15

. Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu 20 25 30

Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro 35 40 45

Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu
50 55 60

Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser 65 70 75 80

Gly Leu Arg Ser Ser Ala Leu Asn Phe 85

<210> 1839

<211> 346

<212> PRT

<213> Homo sapiens

<400> 1839

Met Val Glu Lys Glu Glu Ala Gly Gly Gly Ile Ser Glu Glu Glu Ala 1 5 10 15

Ala Gln Tyr Asp Arg Gln Ile Arg Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro Met Val Asp Val Lys Val Asp Thr Glu Asp Ile Glu Lys Lys Pro Glu Ser Phe Phe Thr Gln Phe Asp Ala Val Cys Leu Thr Cys Cys Ser Arg Asp Val Ile Val Lys Val Asp Gln Ile Cys His Lys Asn Ser Ile Lys Phe Phe Thr Gly Asp Val Phe Gly 155 Tyr His Gly Tyr Thr Phe Ala Asn Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val Ser Gln Gly Val Glu Asp Gly Pro 185 Asp Thr Lys Arg Ala Lys Leu Asp Ser Ser Glu Thr Thr Met Val Lys 200 Lys Lys Val Val Phe Cys Pro Val Lys Glu Ala Leu Glu Val Asp Trp 215 Ser Ser Glu Lys Ala Lys Ala Ala Leu Lys Arg Thr Thr Ser Asp Tyr 235 Phe Leu Leu Gln Val Leu Leu Lys Phe Arg Thr Asp Lys Gly Arg Asp 250 245 Pro Ser Ser Asp Thr Tyr Glu Glu Asp Ser Glu Leu Leu Gln Ile 265 · Arg Asn Asp Val Leu Asp Ser Leu Gly Ile Ser Pro Asp Leu Leu Pro Glu Asp Phe Val Arg Tyr Cys Phe Ser Glu Met Ala Pro Val Cys Ala 295 Val Val Gly Gly Ile Leu Ala Gln Glu Ile Val Lys Ala Leu Ser Gln 315 Arg Asp Pro Pro His Asn Asn Phe Phe Phe Asp Gly Met Lys Gly 330 325

Asn Gly Ile Val Glu Cys Leu Gly Pro Lys 340 345

<210> 1840 <211> 155 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (92) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (105) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (125) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (130) <223> Xaa equals any of the naturally occurring L-amino acids Met Gln His Gln Leu His Leu Leu Ile Cys Trp Gly Lys Gly Ser Lys Ser Asn Thr Ser Cys Leu Gly Pro Val Leu Ser Cys Ser Asn Met Trp Ser Leu Ala Leu Leu Val Val Ala Gly Ser Met Gly Val Ala Tyr Ser Ser Val Val Met Tyr Val Leu Leu Trp Val Pro Leu Pro Leu Pro Ser 55 His Phe Leu Pro Ser Gly Ala Pro Glu Ala Gln Pro Thr Trp Ala Gln Ser Pro His Ser Val Cys Lys Cys Gly Thr Xaa Leu Gly Pro Ala Lys Pro Gln Gly Pro Ser Leu Pro Xaa Pro Pro Cys Leu Ile Met Leu 105

Leu Ser Cys Arg Arg Gln Leu Gly Leu Ala Pro Ser Xaa Trp Leu Pro 115 120 125

Gly Xaa Gly Ser His Gly Gly Glu Leu Arg Gly Cys Ser Gln Gly Trp 130 135 140

Ala Pro Gly Ile Ala His Leu Asn Ile Cys Thr

145 150 · 155

<210> 1841

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1841

Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys
1 5 10 15

Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr 20 25 30

Trp Asn Leu Asn Phe Lys Met Ser Pro Asp 35 40

<210> 1842

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842

Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly 1 5 10 15

Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser 20 25 30

Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg 35 40 45

Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val 50 60

Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys 65 70 75 80

Gly Ile Ile Gly Glu Ile Gly Cys Ser Trp Pro Leu Thr Glu Ser Glu 85 90 95

Arg Lys Val Leu Gln Ala Thr Ala His Ala Gln Ala Gln Leu Gly Cys 100 105 110

Pro Val Ile Ile His Pro Gly Arg Ser Ser Arg Ala Pro Phe Gln Ile 115 120 125

Ile Arg Ile Leu Gln Glu Ala Gly Ala Asp Ile Ser Lys Thr Val Met 130 135 140

Ser His Leu Asp Arg Thr Ile Leu Asp Lys Lys Glu Leu Leu Glu Phe

160 155 150 145 Ala Gln Leu Gly Cys Tyr Leu Glu Tyr Asp Leu Phe Gly Thr Glu Leu 170 Leu His Tyr Gln Leu Gly Pro Asp Ile Asp Met Pro Asp Asp Asn Lys 185 Arg Ile Arg Arg Val Arg Leu Leu Val Glu Glu Gly Cys Glu Asp Arg Ile Leu Val Ala His Asp Ile His Thr Lys Thr Arg Leu Met Lys Tyr 220 215 Gly Gly His Gly Tyr Ser His Ile Leu Thr Asn Val Val Pro Lys Met 235 Leu Leu Arg Gly Ile Thr Glu Asn Val Leu Asp Lys Ile Leu Ile Glu 250 Asn Pro Lys Gln Trp Leu Thr Phe Lys . 260 <210> 1843 <211> 503 <212> PRT <213> Homo sapiens <400> 1843 Met Glu Gln Arg His Val Leu Leu Lys Gln Lys Glu Leu Gly Gly Glu 10 Glu Pro Glu Pro Ser Leu Arg Glu Gly Pro Gly Gly Leu Val Met Glu 25 20 Gly His Leu Phe Lys Arg Ala Ser Asn Ala Phe Lys Thr Trp Ser Arg . 35 Arg Trp Phe Thr Ile Gln Ser Asn Gln Leu Val Tyr Gln Lys Lys Tyr Lys Asp Pro Val Thr Val Val Val Asp Asp Leu Arg Leu Cys Thr Val 65 Lys Leu Cys Pro Asp Ser Glu Arg Arg Phe Cys Phe Glu Val Val Ser Thr Ser Lys Ser Cys Leu Leu Gln Ala Asp Ser Glu Arg Leu Leu Gln 105 Leu Trp Val Ser Ala Val Gln Ser Ser Ile Ala Ser Ala Phe Ser Gln 120 Ala Arg Leu Asp Asp Ser Pro Arg Gly Pro Gly Gln Gly Ser Gly His 135

Leu Ala Ile Gly Ser Ala Ala Thr Leu Gly Ser Gly Gly Met Ala Arg

150

Gly	Arg	Glu	Pro	Gly 165	Gly	Val	Gly	His	Val 170	Val	Ala .	Gln	Val	Gln 175	Ser
Val	Asp	Gly	Asn 180	Ala	Gln	Cys	Cys	Asp 185	Cys	Arg	Glu	Pro	Ala 190		Glu
Trp	Ala	Ser 195	Ile	Asn	Leu	Gly	Val 200	Thr	Leu	Суз	Ile	Gln 205	Cys	Ser	Gly
Ile	His 210	Arg	Ser	Leu	Gly	Val 215	His	Phe	Ser	Lys	Val 220	Arg	Ser	Leu	Thr
Leu 225	Asp	Ser	Trp	Glu	Pro 230	Glu	Leu	V.al	Lys	Leu 235	Met'	Cys	Glu	Leu	Gly 240
Asn ·	Val	Ile	Ile	Asn 245	Gln	Ile	Tyr	Glu	Ala 250		Val	Glu	Ala	Met 255	Ala
Val	Lys	Lys	Pro 260	Gly	Pro	Ser	Cys	Ser 265	·Arg	Gln	Glu	Lys	Glu 270	Ala	ĹĽĐ
Ile	His	Ala 275	Lys	Tyr	Val	Glu	Lys 280	Lys	Phe	Leu	Thr	Lys 285	Leu	Pro-	Glu
Ile	Arg 290	Gly	Arg	Arg	Gly	Gly 295		Gly	Arg	Pro	Arg 300	Gly	Gln	Pro	Pro
Val 305	Pro	Pro	Lys	Pro	Ser 310	Ile	Arg	Pro	Arg	Pro 315	Gly	Ser	Leu	Arg	Ser 320
ŗās	Pro	Glu	Pro	Pro 325	Ser	Glu	qaA	Leu	Gly 330	Ser	Leu	His	Pro	Gly 335	Ala
Leu	Leu	Phe	Arg 340	Ala	Ser	Gly	His	Pro 345	Pro	Ser	Leu	Pro	Thr 350	Met	Ala
Asp	Ala	Leu 355	Ala	His	Gly	Ala	Asp 360	Val	Asn	Trp	Val	Asn 365	Gly	Gly	Gln
Asp	Asn 370	Ala	Thr	Pro	Leu	Ile 375		Ala	Thr	Ala	Ala 380	Asn	Ser	Leu	Leu
Ala 385	Cys	Glu	Phe	Leu	Leu 390	Gln	Asn	Gly	Ala	Asn 395	Val	Asn	Gln	Ala	Asp 400
Ser	Ala	Gly	Arg	Gly 405	Pro	Leu	His	His	Ala 410	Thr	Ile	Leu	Gly	His 415	Thr
Gly	Leu	Ala	Cys 420		Phe	Leu	Lys	Arg 425		Ala	Asp	Leu	Gly 430		Arg
Asp	Ser	Glu 435		Arg	Asp	Pro	Leu 440		Ile	Ala	Met	Glu 445		Ala	Asn
Ala	Asp 450		Val	Thr	Leu	Leu 455		Leu	Ala	· Lys	Met 460		Glu	Ala	Glu
Ala 465		. Gln	Gly	Gln	Ala 470		Asp	Glu	Thr	Tyr 475	: Leu	Asp	Ile	Phe	Arg 480

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Asp Phe Ser Leu Met Ala Ser Asp Asp Pro Glu Lys Leu Ser Arg Arg 485 490 495
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Ser His Asp Leu His Thr Leu 500

<210> 1844

<211> 25

<212> PRT

<213> Homo sapiens

<400> 1844

Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser 1 5 10 15

Leu Met Ala Pro Leu Pro Ser Ala His
20 . 25

<210> 1845

<211> 25

<212> PRT

<213> Homo sapiens

<400> 1845

Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser 1 5 10 15

Leu Met Ala Pro Leu Pro Ser Ala His 20 25

<210> 1846

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1846

Val Phe Gln Ile Tyr Leu 1 5

<210> 1847

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1847

Val Phe Gln Ile Tyr Leu

<210> 1848

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1848

Met Leu Val Leu Leu Leu Asp Phe Leu Gly Leu Val His Leu Gly Gln
1 5 10 15

Leu Leu Ile Phe His Ile Tyr Leu Lys Ala Lys Lys Met Thr Thr Phe 20 25 30

Glu Tyr Leu Ile Asn Asn Arg Lys Glu Glu Ser Ser Lys His Gln Ala 35 40 45

Val Arg Lys Asp Pro Tyr Val Gln Met Asp Lys Gly Val Leu Gln Gln
50 55 60

Gly Ala Gly Ala Leu Gly Ser Ser Ala Gln Gly Val Lys Ala Lys Ser 65 70 75 80

Ser Leu Leu Ile His Lys His Leu Cys His Phe Cys Thr Ser Val Asn 85 90 95

Gln Asp Gly Asp Ser Thr Ala Arg Val His Leu 100 105

<210> 1849

<211>, 245

<212> PRT

<213> Homo sapiens

<400> 1849

Met Leu Gln Ala Arg Asn Gln Ser Pro Ser Ser Gln Arg Pro Leu Asp 1 5 10 15

Val Leu Arg Arg Asn Gln Asp Pro Gln Ser Pro Ala Ser Ile Ser Val 20 25 30

Ile Ile Phe Ile Thr Pro Lys Glu Glu Pro Ala Leu Gln Glu Gly Leu
35 40 45

His Leu Gln Glu Asp Gly Leu Pro Ala Thr Ala Glu Asp Ala Ala Thr 50 55 60

Cys Leu Thr Val Leu Ser Ser Gln Pro Ala Ser Cys Arg Ala Ser Cys 65 70 75 80

Cys Leu Arg Ala Asp Gly Pro Gly Met Leu Ala His Thr Cys Glu His 85 90 95

Ser Thr Gly Lys Trp Glu His Ser Thr Arg Lys Trp Glu His Ser Thr 100 105 110

Gly Lys Trp Glu His Ser Thr Gly Lys Trp Gly Leu Thr Ala Leu Gln 115 120 125

Asn Gly Ser Thr Val Leu Gly Asn Gly Ser Thr Val Leu Gly Ser Gly 130 135 140

Ser Thr Val Leu Arg Ser Gly Ser Thr Val Leu Arg Asn Gly Ser Thr 150 145 Leu Leu Arg Asn Gly Ser Thr Val Leu Gly Asn Gly His Thr Val Leu 170 Gly Asn Gly His Thr Val Leu Arg Asn Gly Ser Thr Val Leu Gly Asn \_ 180 Gly Ser Thr Val Leu Gly Asn Gly Ser Pro Gln Tyr Trp Glu Arg Gly 200 ٠, Val His Ser Thr Arg Lys Trp Glu His Ser Thr Gly Lys Trp Glu His 215 · 210 Ser Thr Gly Lys Trp Glu His Ser Thr Gly Lys Pro Gln Thr Trp Ile 230 235 Leu Ser Phe Ser Ala 245 <210> 1850 <211> 209 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (136) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (161) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (169) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (197) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1850 Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu 20 Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala

50 55 60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
65 70 · 75 80

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu 85 90 95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser 100 105 110

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Trp Gly Ala 115 120 125

Pro Pro Cys Arg Ala Ser Pro Xaa Pro Thr Arg His Ala Cys His Phe 130 135 140

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg 145 150 155 160

Xaa Phe Leu Glu Gly Phe Val Asp Xaa Leu Leu Glu Ala Leu Arg Ser 165 170 175

Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val 180 185 190

Asp Ser Met Tyr Xaa Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His 195 200 205

Leu

<210> 1851

<211> 547

<212> PRT

<213> Homo sapiens

<400> 1851

Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
1 5 10 15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu 20 25 30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu 35 40 45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala 50 55 60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
65 70 75 80

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu 85 90 95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser 100 105 110

Pro	G1u	Cys 115	Leu	Gly	Gly	Glu	Glu 120	Asp	Glu	Leu	Pro	Gly 125	Leu	Gly	Gly.
	Pro 130	Leu	Gln	Gly	Leu	Thr 135	Leu	Pro	Asn	ГÀЗ	Ala 140	Thr	Leu	Gly	His
Phe 145	Tyr	Glu	Arg	Cys	Ile 150	Arg	Gly	Ala	Thr	Ala 155	Asp	Ala	Ala	Arg	Thr 160
Arg	Glu	Phe	Leu	Glu 165	Gly	Phe	Val	Asp	Asp 170	Leu	Leu	Glu	Ala	Leu 175	Arg
Ser	Leu	Cys	Asn 180	Arg	Asp	Thr	Asp	Met 185	Glu	Val	Glu	Asp	Phe 190	Ile	Gly
Val	Asp	Ser 195	Met	Tyr	Glu	Asn	Trp 200	Gln	Val	Asp	Arg	Pro 205	Leu	Leu	Cys
His	Leu 210	Phe	Val	Pro	Phe	Thr 215	Pro	Pro	Glu	Pro	Tyr 220	Arg	Phe	His	Pro
Glu 225	Leu	Trp	Cys ′	Ser	Gly 230	Arg	Ser	Val	Pro	Leu 235	Asp	Arg	Gln	Gly	Tyr 240
Gly	Gln	Ile	ГЛЗ	Val 245	Val	Arg	Ala	Asp	Gly 250	Asp	Thr	Leu	Ser	Су.s 255	Ile
Cys	Gly	Lys	Thr 260	ГÀг	Leu	Gly	Glu	Asp 265	Met	Leu	Суз	Leu	Leu 270	His	Gly
Arg	Asn	Ser 275		Ala	Pro	Pro	Cys 280		Asp	Met	Glu	Asn 285	Leu	Leu	Cys
Ala	Thr 290		Ser	Leu	Tyr	Leu 295		Thr	Met	Gln	Val 300	Met	Lys	Trp	Phe
Gln 305	Thr	Ala	Leu	Thr	Arg 310	Ala	Trp	Lys	Gly	Ile 315	Ala	His	Ĺys	Tyr	Glu 320
Phe	Asp	Leu	Ala	Phe 325		Gln	Leu	Asp	Ser 330		Gly	Ser	Leu	Lys 335	Ile
Lys	Phe	Arg	Ser 340		Lys	Phe	Met	Pro 345	Phe	Asn	Leu	. Ile	9ro 350	Val	Ile
Gln	Cys	355		Ser	Asp	Leu	туг 360	Phe	Val	Ser	His	160 365	Pro	Arg	Glu
Pro	Ser 370		ı Gly	Thr	Pro	Ala 375		Ser	Thr	Asp	380	Leu )	Leu	Ser	Phe
Ala 385		Туг	Glu	Arg	390		e Lev	ı Arg	Thi	Thr 395		Lys	ala	Leu	Pro 400
Glu	Gly	/ Ala	a Cys	His 405	Leu i	. Sei	r Cys	Lev	Glr 410		a Ala	s Ser	: Phe	415	Leu i
Ser	Lys	s Glr	1 Se1 420		j "Lev	1 Th	r Gly	/ Pro		c Gl	/ Lev	ı Sei	Ser 430	. Tyr	His

Leu Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp 435 440 445

Trp Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe 450 455 460

Leu Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly 465 470 475 480

Asn Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg 485 490 . 495

Ala Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu 500 505 510

Tyr Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro 515 520 525

Ala Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr 530 . 535 540

Pro Lys Ser 545

<210> 1852

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1852

Leu Leu Phe Leu Ser Leu Leu Gln Met Gln Glu Leu Leu Gly Arg Gly
1 5 10 15

Ala Trp Ala Pro Gly Cys Gly Arg Arg Pro Ser Gly Trp Gly Gln Leu 20 25 30

Ala Cys Pro Asp Pro Leu Leu Pro Pro His Asn Pro Lys Ser Pro Gln 35 40 45

Pro Gly Pro Ser Thr Ser Gly Val Trp Gly Glu Glu Gln Gly Leu Arg 50 60

Thr Leu Ser Ser Glu His Pro Trp Gln Gly Leu Gln Pro Leu Ile Ser 65 70 75 80

Ser Leu Lys Pro Cys Gly His Thr Ala Arg Arg Asp Leu Pro Leu Ala 85 90 95

Pro Ala Ser Phe Gln Pro Arg Val Leu Ile Gln Gly Pro Arg Thr Val 100 105 110

Pro Pro Val Leu Cys Pro Gln His Lys Ala Arg Leu His Ser Gln 115 120 125

Lys Cys Ser Gln Ala Leu Glu Gly Asp Pro Ala Ser Ser Pro Thr Ala 130 135 140

Pro His Pro Thr His Pro Ser Ala Ala Pro Leu Leu Phe Pro Arg Asp 145 150 155 160

Leu Ser Tyr Thr Gly Gln Glu Ala Ala Glu Arg Val Ser Pro Pro 165 170 175

Ser Lys Arg Ser Cys Ser Leu Cys Gln Asn Arg Val Trp Ala Gly Gly 180 185 190

Arg Ala Leu Gly Ala Arg Pro Leu Pro Leu Pro Ala Gly Phe Ser Trp
195 200 205

Ser Leu Cys Trp Lys 210

<210> 1853

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE.

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853.

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys 20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg 50 55 60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp 70 75 80

Leu Ala Tyr His Ser Ala Val His Gly Ile Xaa Asp Leu Met Ser Gln 85 90 95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 100 105 110

Leu Pro Pro Ala Glu Thr Ala Arg Ser Ala Arg Thr Ala Pro Arg Ser 1194

115 120 125

Ala Ile Thr Arg Arg Ala Phe Thr Ser Thr Arg Xaa Pro Pro Thr Thr 130 135 140

Arg Thr Val Ala Ser Ser Gly Thr His Thr Phe Arg Thr Phe Thr Asp 145 150 155 160

Arg Phe Gln Thr Cys Lys Val Gln Xaa Arg Leu Ala Ala His Arg Gln 165 170 175

Leu Ile Thr

- <210> 1854
- <211> 357
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (140)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (325)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- '<221> SITE
- <222> (329)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (335)·
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (338)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE -
- <222> (339)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1854
- Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro 1 5 10 15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys . 20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser 35 40 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg 50 55 60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp 65 70 75 80

Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln 90 95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 100 105 105

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile 115 120 125

Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr 130 135 140

Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp 145 150 155 160

Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn 165 170 175

Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser 180 185 190

Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
195 200 205

Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro 210 215 . 220

Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala 225 230 235 235

Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile 245 250

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg 260 265 270

Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val 275 280 285

Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro 290 295 300

Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly 305 310 315 320

Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro 325 330 335

Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu 340 345 350

Pro Val Glu Asp Leu 355 <210> 1855 <211> 434 <212> PRT <213> Homo sapiens <400> 1855 Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro 10 Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser 40 His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg 55 Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 100 Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile 120 Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr Pro Asn Tyr Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp 155 Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn 165 170 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser 185 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln . 195 .Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala 235 Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile 250

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg 260 265 270

Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val 275

Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro 290

Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly 310

Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro Thr Ala Pro 335

Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu 345

Pro Val Glu Asp Val Asp Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp

Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp 370 375 380

Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg 385 390 395 400

Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro Leu Ala Pro 405 410 415

Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu Leu Pro Val 420 425 430

Phe Cys

<210> 1856 <211> 712 <212> PRT <213> Homo sapiens

<400> 1856

Met Gly Gln Gly Leu Lys Ala Trp Pro Arg Tyr Arg Val Val Gly Ser 1 5 10 15

Ala Asp Ala Gly Gln Tyr Asn Leu Glu Ile Thr Asp Ala Glu Leu Ser 20 25 30

Asp Asp Ala Ser Tyr Glu Cys Gln Ala Thr Glu Ala Ala Leu Arg Ser 35 40 45

Arg Arg Ala Lys Leu Thr Val Leu Ile Pro Pro Glu Asp Thr Arg Ile
50 55 60

Asp Gly Gly Pro Val Ile Leu Leu Gln Ala Gly Thr Pro His Asn Leu 65 70 75 80

Thr Cys Arg Ala Phe Asn Ala Lys Pro Ala Ala Thr Ile Ile Trp Phe
85 90 95

Arg Asp Gly Thr Gln Gln Glu Gly Ala Val Ala Ser Thr Glu Leu Leu 1198

105 100 Lys Asp Gly Lys Arg Glu Thr Thr Val Ser Gln Leu Leu Ile Asn Pro 120 Thr Asp Leu Asp Ile Gly Arg Val Phe Thr Cys Arg Ser Met Asn Glu 135 Ala Ile Pro Ser Gly Lys Glu Thr Ser Ile Glu Leu Asp Val His His Pro Pro Thr Val Thr Leu Ser Ile Glu Pro Gln Thr Val Gln Glu Gly 170 165 Glu Arg Val Val Phe Thr Cys Gln Ala Thr Ala Asn Pro Glu Ile Leu 185 Gly Tyr Arg Trp Ala Lys Gly Gly Phe Leu Ile Glu Asp Ala His Glu 200 195 Ser Arg Tyr Glu Thr Asn Val Asp Tyr Ser Phe Phe Thr Glu Pro Val 215 Ser Cys Glu Val His Asn Lys Val Gly Ser Thr Asn Val Ser Thr Leu 230 225 Val Asn Val His Phe Ala Pro Arg Ile Val Val Asp Pro Lys Pro Thr . 245 Thr Thr Asp Ile Gly Ser Asp Val Thr Leu Thr Cys Val Trp Val Gly Asn Pro Pro Leu Thr Leu Thr Trp Thr Lys Lys Asp Ser Asn Met Gly 280 Pro Arg Pro Pro Gly Ser Pro Pro Glu Ala Ala Leu Ser Ala Gln Val 295 Leu Ser Asn Ser Asn Gln Leu Leu Leu Lys Ser Val Thr Gln Ala Asp 315 310 Ala Gly Thr Tyr Thr Cys Arg Ala Ile Val Pro Arg Ile Gly Val Ala . 325 Glu Arg Glu Val Pro Leu Tyr Val Asn Gly Pro Pro Ile Ile Ser Ser Glu Ala Val Gln Tyr Ala Val Arg Gly Asp Gly Gly Lys Val Glu Cys Phe Ile Gly Ser Thr Pro Pro Pro Asp Arg Ile Ala Trp Ala Trp Lys 375 Glu Asn Phe Leu Glu Val Gly Thr Leu Glu Arg Tyr Thr Val Glu Arg 395 385 Thr Asn Ser Gly Ser Gly Val Leu Ser Thr Leu Thr Ile Asn Asn Val 410

Met Glu Ala Asp Phe Gln Thr His Tyr Asn Cys Thr Ala Trp Asn Ser

1199

420 425 430

Phe Gly Pro Gly Thr Ala Ile Ile Gln Leu Glu Glu Arg Glu Val Leu 435 440 445

Pro Val Gly Ile Ile Ala Gly Ala Thr Ile Gly Ala Ser Ile Leu Leu 450 455 460

Ile Phe Phe Phe Ile Ala Leu Val Phe Phe Leu Tyr Arg Arg Lys 465 470 475 480

Gly Ser Arg Lys Asp Val Thr Leu Arg Lys Leu Asp Ile Lys Val Glu 485 . 490 495

Thr Val Asn Arg Glu Pro Leu Thr Met His Ser Asp Arg Glu Asp Asp 500 505 510

Thr Ala Ser Val Ser Thr Ala Thr Arg Val Met Lys Ala Ile Tyr Ser 515 520 525

Ser Phe Lys Asp Asp Val Asp Leu Lys Gln Asp Leu Arg Cys Asp Thr 530 540

Ile Asp Thr Arg Glu Glu Tyr Glu Met Lys Asp Pro Thr Asn Gly Tyr 545 550 555 560

Tyr Asn Val Arg Ala His Glu Asp Arg Pro Ser Ser Arg Ala Val Leu 565 570 575

Tyr Ala Asp Tyr Arg Ala Pro Gly Pro Ala Arg Phe Asp Gly Arg Pro 580 585 590

Ser Ser Arg Leu Ser His Ser Ser Gly Tyr Ala Gln Leu Asn Thr Tyr 595 600 605

Ser Arg Gly Pro Ala Ser Asp Tyr Gly Pro Glu Pro Thr Pro Pro Gly 610 615 620

Pro Ala Ala Pro Ala Gly Thr Asp Thr Thr Ser Gln Leu Ser Tyr Glu 625 630 635 640

Asn Tyr Glu Lys Phe Asn Ser His Pro Phe Pro Gly Ala Ala Gly Tyr 645 650 655

Pro Thr Tyr Arg Leu Gly Tyr Pro Gln Ala Pro Pro Ser Gly Leu Glu 660 665 670

Arg Thr Pro Tyr Glu Ala Tyr Asp Pro Ile Gly Lys Tyr Ala Thr Ala 675 680 685

Thr Arg Phe Ser Tyr Thr Ser Gln His Ser Asp Tyr Gly Gln Arg Phe 690 700

Gln Gln Arg Met Gln Thr His Val 705 710

<210> 1857 <211> 81

PCT/US01/11988

## WO 01/77137

<212> PRT

<213> Homo sapiens

<400> 1857

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val 1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu 20 25 30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His 35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu 50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser 65 70 75 80

Val

<210> 1858

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1858

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val 1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu 20 25 30

Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His 35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu 50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser 65 70 75 80

Val

<210> 1859

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1859

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe 1 5 10 15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe

25 20

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu 40

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile

Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp 85

Gln Cys Leu Ala His Asn Ser Gln 100

<210> 1860

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1860

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu 40

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile

Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp 90 85

Gln Cys Leu Ala His Asn Ser Gln 100

<210> 1861

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36) <223> Xaa equals any of the naturally occurring L-amino acids <221> SITE <222> (44) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1861 Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr 5 Cys Ser Val Ser Asn Glu Xaa Tyr Ala Val Ile Phe Asn Phe Phe Pro Leu Tyr Ile Xaa Phe Leu Ser Asp Cys Phe Lys Xaa Phe Ser Leu Ser 40 35 Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser <210> 1862 <211> 72 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (1) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (11) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1862 Xaa Tyr Thr Phe Val Asn Ser Arg Ser Xaa Xaa Leu Ile Asp Phe Leu · 10 Cys Val Ile Met Gly His Leu Phe Leu Val His Phe Met Pro Asp Ile 25 Leu Lys Phe Lys Thr Lys Tyr Cys Glu Phe Tyr Leu Val Leu Cys Trp 40 Ile Phe Phe Val Phe Leu Ser Thr Ile Met Ser Phe Leu Leu Gly Cys

Ser Tyr Ser His Trp Lys Gln Phe

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WO 01/77137

70

<210> 1863

<211> 75·

<212> PRT

<213> Homo sapiens

<400> 1863

Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr

Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Phe Pro

Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser

Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe

Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser 70

<210> 1864

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln 10

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu

Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr

Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg 50

<210> 1865

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1865

Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser 10

His Ser Leu Ala. Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr 20 25 30

Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg 35 40 45

Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met 50 55 60

Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys 65 70 75 80

Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr 85 90 95

Gln Pro Pro Thr Asp Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro 100 105 110

Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys 115 120 125

Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu 130 135 140

Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe 145 150 155

<210> 1866

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1866

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
1 5 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu 20 25 30

Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu 35 40 45

<210> 1867

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1867

Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
1 5 10 15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe 20 25 30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met

45

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His 50 60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val 65 70 75 80

Asp Phe Pro Leu Met Cys Phe Leu Leu 85

<210> 1868 '

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1868

Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met

1 5 10 15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe 20 25 30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met 35 40 45

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His
50 60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val 65 70 75 80

Asp Phe Pro Leu Met Cys Phe Leu Leu 85

<210> 1869

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1869

Met Leu Ile Ser Lys Gly Val Gln Leu Leu Cys Lys Ala Val Tyr Pro 1 5 10 15

Ser His Leu Trp Ser Phe Leu Val Leu Leu Phe Thr Val Met Lys Thr 20 25 30

Glu Pro Val Ser Ala Leu Gly Cys Gly Asp Gln Cys His Gln Ser Leu 35 40 45

Leu Leu Arg Asp Tyr Pro Leu Ala Asn Ile Pro Ile Cys Gly Trp Ala
50
60

Trp Arg Val Tyr Leu Phe Leu Gly Cys Val Cys Ile Cys Val Cys Val 65 70 75 80

Cys Val Cys Val Phe Asn Ser Ser Val Cys Lys Leu Phe 85 90

<210> 1870 <211> 304 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (98) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (166) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (231) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1870 Met Ser Ser Ser Glu Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro 40 Gln Gly Ile Phe Leu Ser His Gly Ser Ile Leu Met Ser Ile Leu Lys His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala Pro His 70 Gly Ser Glu Phe Leu Pro Val Val Val Leu Ser Val Cys Gln Leu Leu 85 Cys Xaa Pro Phe Ala Leu Asp Met Asp Ala Asp Leu Leu Ile Asp Val 105 Leu Ala Asp Leu Arg Asp Ser Glu Val Ala Ala His Leu Leu Gln Val 115 120 Cys Cys Tyr His Leu Pro Leu Met Gln Val Glu Leu Pro Ile Ser Leu . 135 Leu Thr Arg Leu Ala Leu Met Asp Pro Thr Ser Leu Asn Gln Phe Val 150 155 145 Asn Thr Val Ser Ala Xaa Pro Arg Thr Ile Val Ser Phe Leu Ser Val 170 Ala Leu Leu Ser Asp Gln Pro Leu Leu Thr Ser Asp Leu Leu Ser Leu

1207

180 185 190

Leu Ala His Thr Ala Arg Val Leu Ser Pro Ser His Leu Ser Phe Ile 195 200 205

Gln Glu Leu Leu Ala Gly Ser Asp Glu Ser Tyr Arg Pro Leu Arg Ser 210 215 220

Ser Trp Ala Thr Gln Arg Xaa Leu Cys Gly His Thr Leu Ile Gly Ser 225 230 235 240

Trp Asp Thr Cys Ser Asn Thr Ala Trp Pro Cys Val Gly His Cys Arg 245 250 255

Ala Ser Leu Asp Cys Ser Ala Phe Cys Cys Leu Gly Leu Glu Thr Arg 260 265 270

Ile Leu Leu Cys Gly Ala Val Pro Ala Leu Leu Trp Ala Met Gln Pro 275 280 285

Thr Arg Leu Val Leu Trp Asp Leu Pro Trp Gln Leu Gln Cys Pro Val 290 295 300

<210> 1871

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> · ·

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871

Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn 20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn 35 40 45

Gly Cys Cys Asn Asn Xaa Ser Arg Val Leu Cys Ser Ser Pro Ala Pro 50 55 60

Arg Tyr Leu Gly Arg Pro Xaa Lys Glu Lys Thr Ile Val Ile Arg Pro 65 70 75 80

Pro Phe Leu Arg Pro Arg Ser Phe Xaa Trp Ala 85 90

<210> 1872

<211> 210

<212> PRT

<213> Homo sapiens

<400> 1872

Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn 20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn 35 40 45

Gly Cys Cys Asn Asn Val Ser Arg Val Leu Cys Ser Ser Pro Ala Pro 50 55 60

Arg Tyr Leu Gly Arg Pro Lys Lys Glu Lys Thr Ile Val Ile Arg Pro 65 70 75 80

Pro Phe Leu Arg Pro Glu Val Ser Asp Gly Gln Ile Thr Val Lys Ile 85 90 95

Met Asp Asn Gly Ile Gln Gly Glu Leu Arg Arg Thr Lys Ser Lys Gly
100 105 110

Ser Leu Glu Ile Thr Glu Ser Gln Ser Ala Asp Ala Glu Pro Pro Pro 115 120 125

Pro Pro Lys Pro Asp Leu Ser Arg Tyr Thr Gly Leu Arg Thr His Leu 130 140

Gly Leu Ala Thr Asn Glu Asp Ser Ser Leu Leu Ala Lys Asp Ser Pro 145 150 155 160

Pro Thr Pro Thr Met Tyr Lys Tyr Arg Pro Gly Tyr Ser Ser Ser 165 170 175

Thr Ser Ala Ala Met Pro His Ser Ser Ser Ala Lys Val Leu Ser Thr 180 185 190

Leu Arg Gly Gly Val Ile Thr Cys Gln Leu Ala Arg His Ser Gly Ser 195 200 205

Phe Leu 210

<210> 1873

<211> 193 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1873

Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg 1 5 10 15

Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu 20 25 30

Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu 35 40 45

Arg Gln Pro Ser Xaa Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro 50 55 60

Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser 65 70 75 80

Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg 85 90 95

Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln 100 105 110

Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu 115 120 125

Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val

Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp 145 150 150 160

Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser 165 170 175

Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn Pro 180 185 190

Arg

<210> 1874

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220 <221 <222 <223	> SI' > (1	68)	uals	any	of	the	natu:	rall	y oc	curr.	ing	L-am	ino	acid	3
<220 <221 <222 <223	> SI' > (1	69)	uals	any	óf	the	natu	rall	y oc	curr	ing	L-am	ino	acid	S
<220 <221 <222 <223	> SI > (1	71)	uals	any	of	the	natu	rall	у ос	curr	ing	L-am	ino	acid	S
<220 <221 <222 <223	> SI > (1	78)	puals	any	of	the	natu	rall	у ос	curr	ing	L-am	ino	acid	s
<220 <221 <222 <223	> SI	42)	puals	any	of	the	natu	rall	уос	curr	ing	L-am	ino	acid	s
<400 Met 1	)> 18 Thr	74 Ile	Gly	Phe 5	Ala	Leu <sub>.</sub>	Gln	Leu	Leu 10	Gly	Gly	Pro	Phe	Gln 15	Arg
Arg	Leu	Pro	Gly 20	Leu	Gln	Leu	Arg	Gln 25	Pro	Ser	Xaa	Pro	Ser 30	Leu	Arg
Pro	Ala	Leu 35	Pro	Ser	Cys	Pro	Pro 40	Arg	Gln	Arg	Leu	Val 45	Phe	Leu	Lys
Thr	His 50	Lys	Ser	Gly	Ser	Ser 55	Ser	Val	Leu	Ser	Leu 60	Leu	His	Arg	Tyr
Gly 65	Asp	Gln	His	Gly	Leu 70	Arg	Phe	Ala	Leu	Pro 75	Ala	Arg	Tyr	Gln	Phe 80
Gly	Tyr	Pro		Leu 85	Phe	Gln	Ala	Ser	Arg 90	Va1	Lys	Gly	Tyr	Arg 95	Pro
Gln	Gly	Gly	Gly 100	Thr	Gln	Leu	Pro	Phe 105	His	Ile	Leu	Cys	His 110	His	Met
Arg	Phe	Asn 115		Lys	Glu	Val	Leu 120	Gln	Val	Met	Pro	Ser 125	Asp	Ser	Phe.
Phe	Phe 130	Ser	Ile	Val	Arg	Asp 135		Ala	Ala	Leu	Ala 140	Arg	Ser	Ala	Phe
Ser 145		Tyr	Lys ·	Ser	Thr 150		Ser	Ala	Phe	Arg 155		Ser	Pro	Ser	Leu 160
Ala	Ala	Phe	Leu	Ala 165		Pro	Xaa	Xaa	Phe 170		Arg	Pro	Gly	Ala 175	Arg

Gly Xaa His Tyr Ala Arg Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro 180 185 190

Phe Pro Pro Glu Lys Arg Ala Lys Arg Gly Asn Ile His Pro Pro Arg 195 200 205

Asp Pro Asn Pro Pro Gln Leu Gln Val Leu Pro Ser Gly Ala Gly Pro 210 215 220

Arg Ala Gln Thr Leu Asn Pro Asn Ala Leu Ile His Pro Val Ser Thr 225 230 235 240

Val Thr Asp His Arg Ser Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu 245 . 250 255

Gly Ser Ser Ser Phe Ile Gln Trp Gly Leu Ala Trp Leu Asp Ser Val 260 265 270

Phe Asp Leu Val Met Val Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu 275 280 285

Leu Ala Asp Ala Leu Cys Trp Gly Leu Asp Asp Val Val Gly Phe Met 290 295 300

His Asn Ala Gln Ala Gly His Lys Gln Gly Leu Ser Thr Val Ser Asn 305 310 315 320

Ser Gly Leu Thr Ala Glu Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala 325 330 335

Trp Asn Asn Leu Asp Trp Ala Leu Tyr Val His Phe Asn Arg Ser Leu 340 345 350

Trp Ala Arg Ile Glu Lys Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val 355 360 365

Ala Glu Leu Arg Ala Arg Glu Ala Leu Ala Lys His Cys Leu Val 370 375 380

Gly Gly Glu Ala Ser Asp Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg 385 390 395 400

Pro Phe Gln Phe Gly Ser Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser 405 410 415

Gly Leu Ser Pro Gln Asp Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro 420 425 430

Glu Leu Gln Tyr Lys Asp Lys Leu Asp Xaa Lys Gln Phe Pro Pro Thr 435 440 445

Val Ser Leu Pro Leu Lys Thr Ser Arg Pro Leu Ser Pro 450 455 460

<210> 1875

<211> 191

<212> PRT

<213> Homo sapiens

<400> 1875 Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu Arg Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp 155 Pro Ala Gly Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser 170 Ser Thr Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn 185 180 <210> 1876 <211> 83 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (65) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876 Met Ala Pro Ala Ile Val Thr Leu Gly Leu Leu Pro Leu Ala Pro

Ala Asp Leu Cys Leu Pro Ala Leu Gly Ser Ser Arg Leu Pro Arg Gly
20 25 30

Pro Pro Gln Leu Pro Ser Ile Pro Val Ser Gln Pro Leu Pro Arg Gly 35 40 45

Phe Leu Arg Glu His Pro Gln Pro His Lys Leu Gln Pro Ile Pro Pro 50 55 60

Xaa Ser Gln Lys Ala Leu Phe Leu Glu Pro Arg Arg Arg Leu Trp Pro 65 70 75 80

Pro Ser Pro

<210> 1877

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1877

Met Ser Ile Pro Met Val Ser Val Leu Leu Cys Gln Ala Pro Leu Leu

1 5 10 15

Ile Gln Val Ala Leu Pro Arg Thr Val Ala Ile Arg Lys Lys Arg Leu 20 25 30

Cys Leu Val Asp Ser Ile Leu Gln Thr Trp His Leu Phe Asn Phe Phe 35 40 45

Leu Val Gly Phe Ile Phe Gln Ser Ile Phe Arg Phe Thr Ala Lys Leu 50 55 60

Ser Glu Ser Thr Glu Ile Ser His Leu Phe Phe Ala Pro Thr Gln Ala 65 70 75 80

Lys Pro His Leu Leu Pro Ile Ser Pro Thr Arg Glu Val His Leu Leu 85 90 95

<210> 1878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1878

Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val 1 5 10 15

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg 20 25 30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr 35 40 45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe 50 55 60

Leu Phe Asp Ala Gln Glu Gly Pro Ser Ala Val Asp Ile Ala Lys Asp 65 70 75 80

Glu Ile Gln Arg Gln Arg

<210> 1879

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1879

Met Leu Gln Thr Thr Leu Pro Ser Ser Gln Thr Val Ser Leu Cys Leu
1 5 10 15

Trp Val Gly Ala Ser Gln Pro Pro Pro Ser Phe Leu Cys Cys Gln Leu 20 25 30

Gln Val Phe Leu Cys Leu Leu His Thr Thr Arg Arg Cys Pro Ser Ala 35 40 45

Leu Pro Ala Leu Val Arg Val Val Pro Val Ser His Cys Gln Thr Ser 50 55 60

Trp Leu Xaa Cys Gly Asp Leu Phe Leu Cys Leu Arg Ser Phe Leu Arg 65 70 75 80

Ser Val His Ser Ser Gly Val Ser Pro Cys Leu Glu Gln Ile Ala Ser 85 90 95

Pro Phe Ser Thr Cys Leu Leu Lys Leu Trp Ser Thr Cys Asp Cys Lys 100 105 110

Phe Ser Ala Ala Thr Pro Glu Pro Ser Ser Ser His Ser Phe Thr Phe 115 120 125

Met Asp 130

<210> 1880

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1880

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly 35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

<210> 1881

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe 100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe 115 120

<210> 1882

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1882

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly

35 40 . 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe 100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe 115 120

<210> 1883 .

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1883

Met Pro Arg Ser Ser Trp Arg Pro Ala Pro Ser Arg Pro Trp Met Pro 1 5 10 15

Trp Ser Cys Ala Ser Ser Trp Ser Thr Ser Gly Leu Trp Thr Leu Leu 20 25 30

Cys Thr Arg Ala Ala Cys Thr Ser Ser Gln Arg Pro Thr Thr Cys
35 40 45

Trp Asp Gln Pro Arg Arg Leu Thr Leu Leu Cys Ser Gly Ala Cys Ser 50 55 60

Arg 65

<210> 1884

<211> 66

<212> PRT

<213> Homo sapiens

<220×

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1884

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Xaa Pro Gly 1 5 10 15

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Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp
Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Asn
Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys
Leu Ala
 65
<210> 1885
<211> 242
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE
 <222> (228)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (233)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids.
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Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp Ala 35 40 45

Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala Pro 50 55 60

Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val Leu 65 70 75 80

Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr Ser . 85 90 95

Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly Pro 100 . 105 110

Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val Thr 115 120 125

Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala 130 135 140

Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe 145 150 155 160

Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Xaa Glu Thr Leu Glu 165 170 175

Leu Gly Leu Asp Leu Ala Gly Ser Met Thr Gln Asn Leu Glu Pro Leu 180 185 190

Leu Lys Lys Gln Xaa Xaa Asp Trp Ala Leu Pro Val Xaa Lys Leu Leu 195 200 205

Ser Arg Asp Cys Met Xaa Leu Gly Trp Cys Phe Tyr Phe Ser Trp Val 210 215 220

Ala Thr Arg Xaa Cys Ile Glu Lys Xaa Tyr Leu Xaa Lys Ser Val Cys 225 230 235 240

Thr Gly

<210> 1886

<211> 479

<212> PRT

<213> Homo sapiens

<400> 1886

Met Ala Val Léu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala Thr 1 5 10 15 .

Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu 20 25 30

- Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu 35 40 45
- Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp 50 55 60
- Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala 65 70 75 80
- Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val 85 90 95
- Leu Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr 100 105 110
- Ser Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly 115 120 125
- Pro Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val
- Thr Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser 145 . 150 155 160
- Ala Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu 165 170 175
- Phe Leu Leu Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu 180 185 190
- Glu Leu Gly Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu
  195 200 205
- Pro Leu Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys 210 215 220
- Leu Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala 225 230 235 240
- Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp Ala 245 250 255
- Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu His Thr 260 265 270
- Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr Lys Pro Ile 275 280 285
- Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu Thr Arg Phe Ser 290 295 300
- Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg Leu Trp Leu Leu Val 305 310 315 320
- Val Leu Cys Leu Leu Arg Leu Ala Val Thr Arg Pro His Leu Gln Ala 325 330 335

Tyr Leu Cys Leu Ala Lys Ala Arg Val Glu Gln Leu Arg Arg Glu Ala 340 345 350

Gly Arg Ile Glu Ala Arg Glu Ile Gln Gln Arg Val Val Arg Val Tyr 355 360 365

Cys Tyr Val Thr Val Val Ser Leu Gln Tyr Leu Thr Pro Leu Ile Leu 370 . 375 380

Thr Leu Asn Cys Thr Leu Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp 385 390 395 400

Gly Leu Gly Pro Ala Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser 405 410 415

Ala Ala Pro Ile Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala 420 425 430

Arg Ile Ala Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg 435 440 445

Gly Val Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu 450 455 460

Ala Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser 465 470 475

<210> 1887

<211> 122

<212> PRT .

<213> Homo sapiens

<400> 1887

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu 1 5 10 15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro 20 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr 35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu 50 55 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro 85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg 100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys 115 120 <210> 1888 <211> 122

<212> PRT

<213> Homo sapiens

<400> 1888

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
1 5 10 15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro 20 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr 35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu 50 55 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His 65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro 85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg 100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys 115 120

<210> 1889

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1889

Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser 1 5 10 15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro 20 25 30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu 35 40 45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp 50 55 60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr 65 70 75 80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala 85

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1890

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro 20 25 30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu 35 40 45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp 50 55 60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr 65 70 75 80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala 85 90

<210> 1891<sup>-</sup>

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1891

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
1 5 10 15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser 35 40 45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr 50 55 60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser 65 70 75 80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Xaa 85 90 95

Pro Thr Glu

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1892

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
1 5 10 15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn 20 25 30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser 35 40 45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr 50 55 60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser 65 70 75 80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser 85 90 95 '

Leu Pro Ser Ser. 100

<210> 1893

<211> 167

<212> PRT

<213> Homo sapiens

<220> ·

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
1 5 10 15

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala 35 40 45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val 50 55 60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro 65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp 85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu 100 105 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu . 115 120 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser 130 135 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu 145 150 155 160

Pro Glu Gly Pro Ala Val Pro 165

<210> 1894

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1894

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
1 5 10 15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe 20 25 30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala 35 40 45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro 65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp 85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu 100 105 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu 115 120 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser 130 135 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu 145 150 155 160

Pro Glu Gly Pro Ala Val Pro 165

<210> 1895

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1895

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp 1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe 20 25 . 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val 35 40 45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val 50 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val

<210> 1896

<211> 41

<212>. PRT

<213> Homo sapiens

<400> 1896

Ala Arg Ala Leu Gly Leu Phe Val Ser Met Phe Ser Leu Thr Asn Pro 1 5 10 15

Ser Pro Val Leu Ser Ala Leu Leu Gly Tyr Thr Gln Leu Asn Asn Leu 20 25 30

Val His Phe Leu Val Trp Glu Pro Leu 35 40

<210> 1897

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1897

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp 1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe 20 25 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val 35 40 45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val 50 55 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val 85 90

<210> 1898

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1898

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg Xaa Pro Pro Pro Ser Arg Val Ser 85 90 95

Val Trp Leu Phe Val Cys Leu Pro Thr Arg Leu Pro Val Pro Xaa Ala 100 105 110

Leu Pro Leu Xaa Pro 115

<210> 1899

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1899

Ile Ser His Val Leu Ile Asp Ala Tyr Ile Ser Leu Lys Arg Ile Lys

1 5 10 15

Ser Ser Cys Asn Pro Thr Thr Leu Gly Met Cys Ser Glu Asp Leu Leu 20 25 30

Arg Leu Cys His Trp Ser 35

<210> 1900

<211> 88

<212> PRT . .

<213> Homo sapiens

<400> 1900

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg 85

<210> 1901

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1901

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val 1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Prò Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg 85

<210> 1902

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1902

Met Asn Ser Ala Phe Ser Thr Cys Leu Leu Leu Gln Asp Leu Gly
1 5 10 15

Val Pro Leu Thr Leu Thr Gly Leu Pro Pro Ala Leu Gly Leu Ala Pro 20 25 30

Pro Val Leu Glu Pro Arg Ala Pro Gly Leu Glu Leu Pro Leu Trp Gly 35 40 45

Gly Ser Gln Ala Pro Pro Leu Pro Xaa Leu Ser Ser Val Pro Cys Ser 50 55 60

Ala Pro Pro Leu Tyr Leu Ser Val Xaa Arg Pro Leu Thr Glu Arg Arg 65 70 75 80

Cys Arg Val Ser Arg Gly Pro Arg Trp Ser Gln Gly Gln Gly Trp Asp 85 90 95

Leu Gln Gly Thr Arg Gly Ala His Gly Leu Arg His Leu Cys Pro Gly 100 105 110

Ser

<210> 1903

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1903

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro 1 5 10 15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser 20 25 30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro

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35 40 45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
50 55 60

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn 65 70 75 80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys 85 90 95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile 100 105 110

Thr Met Pro Thr Gln 115

<210> 1904

WO 01/77137

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1904

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro 1 5 10 15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser 20 25 30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
35 40 45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val 50 55 60

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn 65 70 75 80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys 85 90 95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile 100 105 110

Thr Met Pro Thr Gln 115

<210> 1905

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1905 Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp 55 Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Tyr Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln 115 <210> 1906 <211> 165 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (145) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (147) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (148) ( <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (152) <223> Xaa equals any of the naturally occurring L-amino acids Met Ala Val Tyr Leu Leu Trp Gln Glu Leu Gly Pro Ala Val Leu Ala Gly Val Ala Val Leu Val Phe Val Ile Pro Ile Asn Ala Leu Ala Ala

25

Thr Lys Ile Lys Lys Leu Lys Val Ser Leu Ala Thr Leu Cys Val Tyr 35 40 45

Phe Leu Leu Asp Glü Gly Asn Ile Leu Thr Ala Thr Lys Val Phe Thr 50 60

Ser Met Ser Leu Phe Asn Ile Leu Arg Ile Pro Leu Phe Glu Leu Pro 65 70 . 75 80

Thr Val Ile Ser Ala Val Val Gln Thr Lys Ile Ser Leu Gly Arg Leu 85 90 95

Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu Pro Gln Ser Ile Glu Thr 100 105 110

Asn Tyr Thr Gly Asp His Ala Ile Gly Phe Thr Asp Ala Ser Phe Ser 115 120 125

Trp Asp Lys Thr Gly Met Pro Val Leu Lys Glu Ala Leu Trp Leu Met 130 135 140

Xaa Leu Xaa Xaa Pro Gly Phe Xaa Ile Ala Phe Cys Lys Lys Thr Phe 145 150 150 160

Ser Leu Ala Pro Ser 165

<210> 1907

<211> 50 .

<212> PRT

<213> Homo sapiens

<400> 1907

Cys Tyr Arg Cys Ile Phe Ser Ile Val Ser Asn Arg Phe Ile Phe Ser 1 5 10 15

Asn Pro Trp Ile Ser Ser Cys Ile Phe Thr Ile Ser Lys Gln Ser Asp 20 25 30

Ser Ile Ala Lys Arg Gln Lys Cys Glu Phe Phe Phe Lys Leu Val Asn 35 40 45

Thr Cys

<210>,1908

<211> .84

<212> PRT

<213> Homo sapiens

· <400> 1908

Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala 1 5 10 15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu 35 40 45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr 65 70 75 80

Lys Val Cys Ile

<210> 1909

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1909

Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala 1 5 10 15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu
35 40 45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr 65 70 75 80

Lys Val Cys Ile

<210> 1910

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1910

Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile 1 5 10 15

Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr 25

Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser 40

Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser 50

Phe Leu Ile Ser Val Val Xaa Ile Pro Arg Ile Ile Val Met Tyr Met 75

Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu 90

Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu 105

His Leu Asn Gln Asn Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser 130

Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser 130

Ser His Phe Thr Ser Ile Asn Cys Xaa Gly Asp Phe Ile Ile Phe Leu 145 150 155 160

Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala 165 170 175

Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu 180 185 190

Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe 195 200 205

Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu 210 215 220

Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe 225 230 235 240

Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
245 250 255

Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala 260 265 270

Ile Val Arg

<210> 1911

<211> 275

<212> PRT

<213> Homo sapiens

<400> 1911

Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile

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· 1				5					10					15	
Leu	Ala	Cys	Gln 20	Gln	Met.	Thr	Ile	Ala 25,	Gly	Ala	Val	Val	Thr 30	Cys	Tyr
Phe	Asn	Arg 35	Ser	Lys	Asn	Asp	Pro 40	Pro	Asp	His	Pro	Ile 45	Leu ·	Ser	Ser
Leu	Ser 50	Ile	Leu	Phe	Phe	Tyr 55	His	Gln	Gly	Thr	Ile 60	Val	Lys	Gly	Ser
Phe 65	Leu	Ile	Ser	Val	Val 70		Ile	Pro	Arg	Ile 75	Ile	Val	Met	Tyr	Met 80
Gln	Asn	Ala	Leu	Lys 85	Glu	Gln	Gln	His	Gly 90	Ala	Leu	Ser	Arg	Tyr 95	Leu
Phe	Arg	Cys	Cys 100	Tyr	Cys	Суз	Phe	Trp 105	Cys	Leu	Asp	Lys	туг 110	Leu	Leu
His	Leu	Asn 115	Gln	Asn	Ala	Tyr	Thr 120	Thr	Thr	Ala	Ile	Asn 125	Gly	Thr	Asp
Phe	Cys 130	Thr	Ser	Ala	Lys	Asp 135	Ala	Phe	Lys		Leu 140	Ser	Lys	Asn	Ser
Ser 145	His	Phe	Thr	Ser	Ile 150	Asn	Cys.	Phe	Gly	Asp 155	Phe	Ilé	Ile	Phe	Leu 160
Gly	Lys	Val	Leu	Val 165	Val	Cys	Phe	Thr	Val 170	Phe	Gly	Gly	Leu	Met 175	Ala
Phe	Asn	Tyr	Asn 180	Arg	Ala	Phe	Gln	Val 185	Trp	Ala	Val	Pro	Leu 190	Leu	Leu
Val	Ala	Phe 195	Phe	Ala	Tyr	Leu	Val 200	Ala	His	Ser	Phe	Leu 205	Ser	Val	Phe
Glu	Thr 210		Leu	Asp	Ala	Leu 215	Phe	Leu	Cys	Phe	Ala 220	Val	Asp	Leu	Glu
Thr 225		Asp	Gly	Ser	Ser 230	Glu	Lys	Pro	Tyr	Phe 235		Asp	Gln	Glu	Phe 240
Leu	Ser	Phe	Val	Lys 245		Ser	Asn	Lys	Leu 250		Asn	Ala	Arg	Ala 25 <u>,</u> 5	
Gln	. Asp	Lys	His 260		Leu	Arg	Asn	Glu 265	Glu	Gly	Thr	· Glu	Leu 270		Ala

Ile Val Arg 275

<210> 1912 <211> 136

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile 40

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120

Pro Ile Pro Ala Xaa Leu Phe Cys 130

<210> 1913

<211> 64

<212> PRT

<213> Homo sapiens .

<400> 1913

Val Phe Thr Ser Ala Lys Tyr Tyr Gly Glu Leu Ser Leu Lys Cys Ala

Ile Leu Asp Lys Gly Leu Leu Pro Thr Leu Phe Cys Asn Phe Asp Thr

Ser Ile Phe Thr Pro Ile Asn Ile Thr Lys Pro Gln Phe Tyr Arg Trp 40

Lys Glu Leu Leu Phe Phe Cys Cys Ser Leu Met Gln Phe Leu Ile Leu . 55

<210> 1914 <211> 305

<212> PRT <213> Homo sapiens

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn 20 25 30

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile 35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr 100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe 130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn 145 150 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr 165 170 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg 180 185 190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg 195 200 205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu 210 215 220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp 225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr 245 250 255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala 260 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys 275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu 290 295 300 Ser

<210> 1915 <211> 305 <212> PRT <213> Homo sapiens

•

<400> 1915 Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile 1 5 10 15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn 20 25 30

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile 35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr 100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe 130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn 145 150 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr 165 170 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg 180 185 190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu 210 215 220

Ala Met Asp Ala Cys Tyr Gly İle His Val Tyr Gly Met Ile Asn Asp 225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr 245 250 255 .

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala 260. 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys 275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu 290 295 300

Ser 305

<210> 1916

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1916

Met Asp Ser Gly Gly Trp Met Asp Gly Asp Thr Arg Gln Ala Phe Pro 1 5 10 15

Cys Pro Trp Gly Leu Val Ser Leu Pro Leu Ala Gly Val Thr Leu Ala 20 25 30

Leu His Val Phe Thr Ala Ser Ala Leu Pro Arg Glu Leu Arg Ser Glu 35 40 45

Lys Asp Trp Pro Gly Gln Ser Pro Gly Pro Ile Val Ser Val Pro Gly 50 60

Xaa Gln Glu Gly Ile Leu Glu Gly Gly Pro Gly Thr Gln Phe Ala Leu 65 70 75 80

<210> 1917

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

· <220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids.

<220> <221> SITE <222> (298) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (300) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (301) <223> Xaa equals any of the naturally occurring L-amino acids Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala 55 Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu 90 Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile 105 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser 120 115 Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe 135 Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala 155 145 Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser 170 Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile 200 Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser 240 235 230

Val Pro Leu Pro Pro Leu Ile Met Kaa Cys Arg Thr Ile Met Glu Glu 245 250 255 .

Xaa Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg 260 265 270

His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr 275 280 285

Ile Pro Asn Ser Leu Lys Arg Ser Asp Xaa Pro Xaa Xaa Val Leu Gly 290 295 300

Arg Leu Ile Ala Ala Arg Ala Thr Ser Ala Asn Cys His Gln Gly Val 305 310 315 320

Ser Ser Pro Ala Val Gln Lys Arg Ala Cys Arg 325 330

<210> 1918

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1918

Val Gly Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro 1 5 10 15

Gly Gly Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys 20 25 30

Arg Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr 35 40 45

Ala Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln 50 55 60

Gly Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 65 70 75

<210> 1919

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1919

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
20 . 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu 1241

50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro 65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 85 90

<210> 1920

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1920

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly 20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met 35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu 50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro 65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 85 90

<210> 1921

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1921

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys 20 25 30

Leu Cys Trp Pro Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro 50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr 85 90 95 .

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser 100 105

<210> 1922 '

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1922

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu

1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
20 25 30

Leu Cys Trp Pro Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp 35 40 . 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro 50 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser 100 105

<210> 1923

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

. <400> 1923

Ser Phe Leu Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser 1 5 10 15

Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro 20 25 30

Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr 35 40 45

Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val 50 55 60

Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala 65 70 .75 80

Ser

<210> 1924 <211> 108 <212> PRT

.<213> Homo sapiens

<400> 1924

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu

1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
20 25 30

Leu Cys Trp Pro Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro 50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser 100 105

<210> 1925

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1925

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu 1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu 35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val

50 55 60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln 65 70 75 80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His 85 90 95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His 100 105 110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln 115 120 125

Lys Thr His Pro Leu Ala Trp Ser 130 135

<210> 1926

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1926

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu 1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu 35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val 50 55 60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln 65 70 75 80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His 85 90 95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Ser His . 100 105 110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
115 120 125

Lys Thr His Pro Leu Ala Trp Ser 130 135

<210> 1927

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1927

Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala 1 5 10 15

Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser 20 25 30

Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly 35 40 45

Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser 50 55 60

Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr 65 70 75 80

Val Leu Ser Ile Leu His

...<210> 1928

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1928

Met Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
1 5 10 15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu 35 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu 50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser 65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val 85 90 95

Ser Asn Ser

<210> 1929

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1929

Met Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala 1 5 10 15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile 20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu 35 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu 50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser 65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val

Ser Asn Ser

<210> 1930

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930

Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala 1 5 10 15

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu 35 40 45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His 50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro 65 70 75 80

Arg Val Ser Gly

<210> 1931

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1931

Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met

1 5 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly 20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn 35 40 45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val 50 55 60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu 65 70 75 80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala 85 90 95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly 100 105 110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His 115 120 125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala 130 135 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu 145 150 155 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly 165 170 175

Ala Ser

<210> 1932

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1932

Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Arg Met Ala Leu

1 5 10 15

Gly Ile Xaa Ile Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser 20 25 30

Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser

Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile 50 55 . 60

Ile Trp Lys Pro Trp Arg Gln Gln Cys Thr Arg Gly Leu Arg Gly Lys His Ala Ala Phe Phe Ala Asp Ala Glu Gly Tyr Phe Ala Ala Cys Thr Thr Asp Thr Thr Met Asn Ser Ser Leu Ser Glu Pro Leu Tyr Val Pro 110 Val Lys Phe His Asp Leu Pro Ser Glu Lys Pro Glu Xaa Thr Asn Ile Asp Thr Glu Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile Met Glu Ile Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu 155 Ser Arg Met Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr 170 Val Gly Lys Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe Cys Phe Val Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser Asp Thr Gln Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu Phe Thr Leu Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg Phe Thr Leu Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val Val Leu Val Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr 265 270 Val Gly Ser Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr 280 Ile Val Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile 295 Pro Met Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Trp 310 Pro Gly Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe 325 Pro Asn Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser 365 -355 360 Ser Leu Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile 375 380 370

Ile Ala Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe 385 390 395 400

Ala Gly Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu 405 410 415

Cys His Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile 420 425 430

Phe Ala Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp 435 440 445

Ser Glu Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu 450 455 460

Asp Gly Ala Ser 465

<210> 1933

<211>\ 178

<212> PRT

<213> Homo sapiens

<400> 1933

Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
1 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Trp Pro Gly
. 20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn 35 40 45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val 50 55 60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu 65 70 75 80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala 85 90 95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly 100 105 110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His 115 120 125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala 130 135 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu 145 150 155 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly 165 170 175

Ala Ser

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<210> 1934
<211> 116
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1934
Met Leu Val Ala Trp Cys Leu Ala Pro Gly Asp Leu Leu Leu Val
Ile Ile Thr Leu Pro Arg Lys Glu Val Thr Gly Ser Met Ser Thr Val
Cys Gln Cys Glu Ala Gln Pro Ala Met Leu Pro Lys Gly His Phe Thr
His His Ser Pro Lys Ala Ala Arg Lys Ala Gln Glu Gly Thr Arg Lys
Ala Arg Trp Val Ala Leu Glu Asp Ser Ala Pro Phe His Pro Ser Pro
                                         75
Gly Trp Gly Leu Ile Leu Gln Leu His Pro Gln Pro Met Asn Xaa Ser
                                     90
Gln Ser Ala Trp Lys His Cys Cys Trp Lys Asn Cys Glu Glu Pro Xaa
                                                    110
                                105
Glu Gly Lys Lys
       ·115
<210> 1935
<211> 74
<212> PRT
<213> Homo sapiens
<220> '
<221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids
Lys Thr Pro His Ser Trp Val Ile His Ala Gly Glu Ala Ser Cys His
                                      10
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Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly
20 25 30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser 35 40 45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile 50 55 60

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser 65 70

<210> 1936

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936

Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro 1 5 10 15

Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu 20 25 30

Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu 35 40 45

Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro 50 55 60

Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly 65 70 75 80

Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp 85 90 95

Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly 100 105 110

His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys 115 120 125

<210> 1937

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1937

Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu
1 5 10 15

Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro
20 25 30

Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser 35 40

<210> 1938

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1938

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu

1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg 50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser 85

<210> 1939

<211>- 89

<212> PRT

<213> Homo sapiens

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg 50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser 85

<210> 1940

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp

1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu 20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn

75 80 70 65 Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg 85 Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu 120 Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp · 140 135 Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Pro Ser Xaa Ala 155 Asp Ala Pro Glu Val Gln Arg Gly Leu Gln Ala Cys Leu Leu Ser Pro 170 Lys Leu Pro Leu Arg Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala 185 Ser Pro Asp Gln Asn Gly Asp Thr Trp Asp Leu Lys Lys Phe Ser Xaa 205 200 Thr Pro Pro Leu Gly Lys Ala Trp Glu Xaa Leu Leu Xaa Gly Thr 215 <210> 1941 <211> 169 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (4) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (24). <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (108) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1941 Ser Pro Lys Xaa Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val

5 ·

Leu Xaa Ala Arg Thr Lys Arg Xaa His Leu Val Leu Lys Ser Phe Lys
20 25 30

Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val 35 40 45

Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val 50 55 60

Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp
65 70 75 80

Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met 85 90 95

Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly
100 105 110

Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp

Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu 130 135 140

Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp 145 150 155 160

His Arg Pro Gln Glu Cys Arg Leu Val

<210> 1942

<211> 327

<212> PRT

<213> Homo sapiens

<400> 1942

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp

1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu 20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys 50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn 65 70 75 80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg 85 90 95

Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala 100 105 110

Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu 1256

PCT/US01/11988 WO 01/77137

120 125 115 Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp 135 Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Arg Val Gly Gln 150 Met Pro Leu Lys Ser Ser Val Gly Ser Arg Arg Val Phe Phe Thr Lys 165 Leu Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ala 180 Arg Thr Lys Arg Gly His Leu Val Leu Lys Ser Phe Lys Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp Leu Lys Val 250 Ala Thr Ser Leu Leu Leu Leu Phe Ala Ile Phe Met Gly Leu Arg 265 Ala Ser Lys Cys Arg Ala Ala Leu Asn Ser Cys Thr Gly Cys Ser Pro 280 Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp Thr Gln Leu Val Leu Arg Leu Pro Lys Cys Val Ser Cys Leu Glu Ala Glu Ser Ala 315

Gln Arg Gly Ala Ala Phe Tyr 325

<210> 1943 <211> 118 <212> PRT <213> Homo sapiens .

<400> 1943 Met Lys Asp Leu Trp Phe Leu Leu Leu Val Val Ala Ala Pro Thr Trp

Val Leu Ser Gln Val Arg Leu Gln Glu Ser Gly Pro Gly Leu Val Ser

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ile Asn Ile

Gly Gly Gly Lys Tyr Tyr Trp Ala Trp Val Arg Gln Arg Pro Gly Glu 55 50

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr 65 70 75 80

Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn 85 90 95

Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val 100 105 110

Tyr Tyr Cys Ala Thr Asp 115

<210> 1944

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1944

Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp

1 5 10 15

Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe
20 25 30

Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser 35 40 45

Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp
50 55 60

Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg 65 70 75 80

Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly
85 .90 95

Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser 100 105 110

Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro 115 120 125

Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala 130 135 140

Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser 145 150 155 160

Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu 165 170

<210> 1945

<211> 162

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1945
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
Leu Phe Val Thr Pro Leu Leu Leu Pro Leu Val Ile Leu Met Pro
                               25
Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
                          , 40
Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
                                             60
                         55
Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
                                                         95
Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
            100
Leu Gln Xaa Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
                            120
                                                125
Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Xaa Ile
Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Arg Ala Glu Glu
                                        155
Val Val
<210> 1946
<211> 173
<212> PRT
<213> Homo sapiens
<220>
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<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>

<221> SITE <222> (130)

PCT/US01/11988 WO 01/77137

<223> Xaa equals any of the naturally occurring L-amino acids <400> 1946 Glu Glu Pro Gln Asp His Thr His Ser Pro Tyr Pro Pro Gln Asp Tyr Arg Thr Phe Trp His Thr Leu Tyr Arg Val Leu Gly Phe Thr Pro Gln Asn Asp Pro Thr Met Ser Thr His His Gln Asn Pro Ala Asn Gly Pro Pro Leu Pro Pro Ser Pro Asp Ala Glu Met Xaa Met Gly Ser Trp Arg Val Gly Ser Glu Met Lys Gly Thr Pro Gln Trp Ala Ala Gly Pro Ile Phe Pro Lys Pro Cys His Tyr Leu Cys Glu Gly Gly Gln Val Ala Glu Gly Ser Gly Cys Arg Leu Leu Tyr Pro Leu Cys Leu Lys His Pro Pro 105 100 His Arg Ala Leu Val Phe Thr Arg Phe Val Leu Asp Ser Leu Asn Gly Asn Xaa Ile Pro Trp Leu Arg Ala Lys Thr Thr Thr Tyr Gln Cys Pro 135 Cys Pro Phe Gln Leu Thr Leu Ser Ser Leu Arg Ser Ser Leu Ser Leu 150 Trp Lys Gly His Pro Ser Gln Gly Arg Asn Ala Trp Ser 170 <210> 1947 <211> 407 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (193) <223> Xaa equals any of the naturally occurring L-amino acids <220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile 105 Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu 120 Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Glu Asp Gln Glu Arg Lys Arg 155 Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu Leu Gly 185 190 Xaa Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn Phe Ala 200 Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu Leu Phe 220 Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr Val Ser 235 230 Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile Val Pro 245 Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu Glu Arg 265 Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys 315 Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile 330 . Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala 345

Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys Thr Gly 355 360 365

Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn 370 375 380

Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala 385 390 395 400

Asn Val Thr His Ile Glu Thr 405

<210> 1948

<211> 162

<212> PRT

<213> Homo sapiens

<400> 1948

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile 1 5 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro 20 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu 35 40 45

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
50 55 60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg 65 70 75 80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile 85 90 95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile 100 105 110

Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu 115 120 125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile 130 135 140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg 145 150 155 160

Leu Cys

<210> 1949

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949

Met Pro Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu

1 5 10 15

Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu 20 25 30

His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro 35 40 45

Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met 50 55 60

Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu 65 70 75 80

Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly
85 90 95

Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln 100 105 110

Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Glu Asp Gln Glu Arg 115 120 125

Lys Arg Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser 130 135 140

Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu 145 150 155 160

Leu Gly Gln Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn 165 170 175

Phe Ala Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu 180 185 190

Leu Phe Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr 195 200 205

Val Ser Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile 210 215 220

Val Pro Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu 225 230 235 240

Glu Arg Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val 245 250 255

Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Gly 260 265 270

Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met 275 280 285

Gly Lys Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr 290 295 300

Leu Ile Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn 305 310 315 320

Val Ala Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys 325 330 335

Thr Gly Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala 340 345 350

Val Asn Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp 355 360 365

Trp Ala Asn Val Thr His Ile Glu Thr 370 375

<210> 1950

· <211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1950

Met Ser Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu 35 40 45

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Xaa Asp 50 55 60

Ser Asp Pro His Gly Pro His Thr Cys Xaa His Val Leu Asn Val Ile 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu 85 90 95

Ala Leu Gly Tyr Lys Leu Xaa Cys

100

<210> 1951

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1951

Gln Val Pro Met Ser Trp Thr Pro Thr Ser Cys Ser Cys Gly Leu Gly
1 5 10 15

Asp Gly Ile Gly His Ile Leu Gly Val Gln Arg Arg Pro Thr Arg Ala
20 25 30

Arg Ser Asp Gly Arg Ala Ser Gln Thr Gly Arg Trp Gly Leu Pro Pro 35 40 45

Thr Pro Glu Asp Glu Asp Lys Pro Leu Gly Gln Phe Ser Val Pro Val 50 55 60

Leu Leu Pro Trp Ala Ala Ser Leu Leu Ser Pro Ser Pro Cys Phe Phe 65 70 75 80

Leu

<210> 1952

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1952

Met Ser Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
1 5 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu.

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Ala Asp 50 60

Ser Asp Pro His Gly Pro His Thr Cys Gly His Val Leu Asn Val Ile 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu 85 90 95

Ala Leu Gly Tyr Gln Ala Val Val Leu Ser Ala Ala Met Gln Gly Asp 100 105 110

Val Lys Ser Met Ala Gln Phe Tyr Gly Leu Leu Ala His Val Ala Arg 115 120 125

Thr Arg Leu Thr Pro Ser Met Ala Gly Ala Ser Val Glu Glu Asp Ala 135 Gln Leu His Glu Leu Ala Ala Glu Leu Gln Ile Pro Asp Leu Gln Leu 150 Glu Glu Ala Leu Glu Thr Met Ala Trp Gly Arg Gly Pro Val Cys Leu 170 · 165 ′ Leu Ala Gly Gly Glu Pro Thr Val Gln Leu Gln Gly Ser Gly Arg Gly 185 Gly Arg Asn Gln Glu Leu Ala Leu Arg Val Gly Ala Glu Leu Arg Arg Trp Pro Leu Gly Pro Ile Asp Val Leu Phe Leu Ser Gly Gly Thr Asp Gly Gln Asp Gly Pro Thr Glu Ala Ala Gly Ala Trp Val Thr Pro Glu Leu Ala Ser Gln Ala Ala Ala Glu Gly Leu Asp Ile Ala Thr Phe Leu 250 Ala His Asn Asp Ser His Thr Phe Phe Cys Cys Leu Gln Gly Gly Ala 265 His Leu Leu His Thr Gly Met Thr Gly Thr Asn Val Met Asp Thr His 285 280 Leu Leu Phe Leu Arg Pro Arg 295 290 <210> 1953 <211> 116 <212> PRT <213> Homo sapiens Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 25 . Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln

τ

100 105 110

Arg Leu Cys Pro 115

<210> 1954

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1954

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys 1 5 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu 35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly 50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys 65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp 85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln 100 105 110

Arg Leu Cys Pro 115

<210> 1955

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1955

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys

1 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu 35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly 50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys 65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp 85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln 100 105 110

Arg Leu Cys Pro 115

<210> 1956

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1956

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe
1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro 35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala 50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys 65 70 75 80

Gly Leu

<210> 1957

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1957

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe

1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro 35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys 65 70 75 80

Gly Leu

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<210> 1958
<211> 18
<212> PRT
<213> Homo sapiens
<400> 1958
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
Thr Cys
<210> 1959
<211> 18
<212> PRT
<213> Homo sapiens
<400> 1959
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
                                     10
Thr Cys
<210> 1960
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Gly Trp Gly Pro
Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
                             25
Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
                             40
         35
<210> 1961
<211> 79
<212> PRT
<213> Homo sapiens
<400> 1961
Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr
```

1 5 10 15

Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly
20 25 30

Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile 35 40 45

Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg 50 55 60

Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr 65 70 75

<210> 1962

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1962

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
1 5 10 15

Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe 20 25 30

Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe 35 40 45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile 50 55 60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys 65 70 75 80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln 85 90 95

Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser 100 105 110

Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu 115 120 125

Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr 130 135 140

Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr Ile Ile 145 150 155 160

Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys 165 170 175

Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser 180 185 190

Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys 195 200 205

Tyr Ser Ile Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser Pro Tyr 210 215 220

Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp Thr Gln 225 230 235 240

Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala Leu Asn 245 250 255

Ser Ala Ile Asn Pro Leu Ile Tyr Cys Val Phe Ser Ser Ser Ile Ser 260 265 270

Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr Phe Arg 275 280 285

Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe 290 295 300

Ile 305

<210> 1963

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1963

Met Ser Met Ala Met Gly Ser Ser Thr Leu Leu Leu Gly Trp Gly Pro 1 5 10 15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu 20 25 30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr 35 40

<210> 1964

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1964

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu 1 5 10 15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly 20 25 30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp 35 40 45

Glu Asp Fro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His 55 The Ala Trp Ala Gln Pro Arg Thr His 66 The Fro Asp Thr Pro Asp Thr Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Pro Asp The Asp The Pro Asp The Asp The Pro Asp The Asp The Pro Asp The Asp The Pro Asp The Asp The Pro Asp The Asp The Asp The Asp The Pro Asp The Asp

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
1 5 10 15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
20 25 30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp 35 40 45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His 50 55 60

Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
65 70 75 .. 80

Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu 85 90 95

Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly 100 105 110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp 115 120 125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly 130 \ 135 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr 145 150 155 160

Leu

<210> 1966

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu 1 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala 65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser 85 90

<210> 1967

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1967

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu 1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His 20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala 65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser 85 90

<210> 1968 <211> 124 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1968

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser 1 . 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe 20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala 35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Asn Glu 65 70 75 80

Arg Leu Glu Leu Ala Ser Trp Trp Met Ile Arg Pro Ala Trp Ala Lys 85 90 95

Ser Thr Ser Ala Ala Ser Ser Cys Ser Ser Ala Ser Cys Cys Pro Thr 100 105 110

Phe Pro Trp Trp Pro Arg Ala Pro Arg Gly His Ser 115 120

<210> 1969

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser 1 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe 20 . 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala 35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu 50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Xaa Glu 65 70 75 80

Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu 85 90 95

Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp 100 105 110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser 115 120 125

Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg 130 135 140

Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile 145 150 155 160

Ser Tyr Arg Gly Xaa Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala 165 170 175

Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe 180 185 190

Leu Ile Thr Asp Gly Tyr Ser Lys Gly Glu Thr Leu Ala Gln Leu Gln
195 200 205

Arg His Cys Glu Ile Gln Glu Trp Arg Ser Ser Leu Leu Ala Tyr Gly 210 215 220

Lys Gly Thr Phe Glu Ser 225 230

<210> 1970

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1970

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe

20 . 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala 35. 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Arg 65 70 75 80

Ala Pro Gly Ala Cys Leu Pro Gly Gly 85

<210> 1971

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1971 ·

Met His Val Lys Trp Xaa Leu Ile Met Phe Leu Ile Cys Ile Ser Leu 1 5 10 15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr 20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe 35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Xaa Phe Val Tyr Ser 50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser 65 70 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala 85 90 95

Gln Thr Phe

<210> 1972

<211> 99

<212> PRT

<213> Homo sapiens

PCT/US01/11988 WO 01/77137

<400> 1972

Met His Val Lys Trp Tyr Leu Ile Met Phe Leu Ile Cys Ile Ser Leu

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Phe Phe Val Tyr Ser

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala

Gln Thr Phe

<210> 1973

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1973

Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser 10

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu 25

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu 55 50

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met 90

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His 105 .

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe 120

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys 135

Phe Ile Lys Phe Ala Ala Leu Cys Lys 150

<210> 1974

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<211> 153
<212> PRT
<213> Homo sapiens
<400> 1974
Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
                                     90
Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
                                105
Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
                            120
Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
                                           140
                         135
Phe Ile Lys Phe Ala Ala Leu Cys Lys
                    150
<210> 1975
<211> 129
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
<222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids.
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<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1975
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
                                        . 75
Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro
                                     90
Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg
                                105 ' 110
Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys
                            120
        115
Lys
<210> 1976
 <211> 467
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids
 Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
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Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His

PCT/US01/11988 WO 01/77137

25 20 Tyr Phe His Gly Tyr Leu Ala Gly Phe Ser Val Arg Ser Gly Arg Leu 40 Glu Ser Arg Glu Val Ile Glu Cys Leu Tyr Ala Cys Arg Glu Gly Leu 55 Asp Tyr Arg Asp Phe Glu Ser Leu Gly Lys Gly Met Lys Val His Val Asn Pro Ser Gln Ser Leu Leu Thr Leu Glu Gly Asp Asp Val Glu Thr Phe Asn His Ala Leu Gln His Val Ala Tyr Met Asn Thr Leu Arg Phe Ala Thr Pro Gly Val Arg Pro Leu Arg Leu Thr Thr Ala Val Lys Cys 120 Phe Ser Glu Glu Ser Cys Val Ser Ile Pro Glu Val Glu Gly Tyr Val Val Val Leu Gln Pro Asp Xaa Pro Gln Ile Leu Leu Ser Gly Thr Xaa 155 150 His Phe Ala Arg Pro Ala Val Asp Phe Glu Gly Thr Asn Gly Val Pro 170 Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser Ile Ser His Gln Val Glu 185 Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr Val Thr Asp Thr Arg Met 200 Ser Asp Glu Ile Val His Asn Leu Asp Gly Cys Glu Ile Ser Leu Val 215 Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr 235 230 Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr Asn Thr Ser Ala Tyr Leu 250 245 Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu Glu Ile Leu Arg Gln Ala Arg Tyr Arg Leu Arg His Gly Ala Ala Leu Tyr Thr Arg Lys Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His 315 305 Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln

1280

330

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn

340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly 355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu 370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp 385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile 405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly 420 425 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val 435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro 450 455 460

His Arg Tyr 465

<210> 1977

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977

Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
1 5 10 15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met 20 25 30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn 35 40 45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser 50 55 60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr 75 Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Xaa Lys Gln Glu Pro Gln Thr Ser Ser Ser Pro Lys Pro Thr Arg Arg Arg Glu Val Ser Arg 100 105 Xaa Glu Leu Xaa Pro Val Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg 135 140 Ile His Ser Leu His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly 155 150 Ala Ser Ser Asp Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala 170 Leu Thr Ile Ile Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser 185 Cys Val Thr Gly Ala Val Gly Gly Gln Glu Asp Glu Asp Ser Ser 200 Asp Ser Glu Val Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile 220 215 Glu Thr Pro Pro His Arg Tyr 230 <210>. 1978 <211> 145 <212> PRT <213> Homo sapiens <400> 1978 Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp Asn 10 Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser

90 .

His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu 100 105 110

Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro 115 120 125

Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val

Cys 145

<210> 1979

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1979

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
1 5 10 15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln 20 25 30

Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile 35 4'0 45

Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr 50 55 60

Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser His Gly Tyr Gly 65 70 75 80

Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu Thr Leu Ile Ser 85 90 95

Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro Val Pro Arg Thr 100 105 110

Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val Cys 115 120 125

<210> 1980

<211> 146

<212> PRT

<213> Homo sapiens

<400> 1980

Val Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp

1 5 10 15

Asn Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala
20 25 30

Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp
35 40 45

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly 50 60

- Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe 65 70 75 80
- Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile 85 90 95
- Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly 100 105 110
- Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln 115 120 125
- Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr 130 135 140

Val Cys 145

<210> 1981

<211> 109.

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1981

- Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
  1 5 10 15
- Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30
- Ser Val Arg Arg Ile Asn Tyr Kaa Phe Leu Ile Tyr Lys Lys Gly Met 35 40 45,
- Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 55 60
- Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile 65 70 75 80
- Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu 85 90 95
- Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro

<210> 1982

<211> 109

<212> PRT

<213> Homo sapiens

<40.0> 1982

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30

Ser Val Arg Arg Ile Asn Tyr Val Phe Leu Ile Tyr Lys Lys Gly Met 35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile 65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu 85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro

<210> 1983

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln 1 5 . 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met 35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu 85 90

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro . 100 105

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<210> 1984
<211> 108
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1984
Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp
Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro
             20
Thr Pro Leu Pro Xaa Ser Pro Leu Gly Leu Arg Ser Leu Arg Arg Val
                             40
Gly Trp Pro Val Arg Lys Gly Arg Val Gly Arg Ala Trp Gly Trp Ala
                         55
Gly Leu Cys Glu Glu Leu Gln Pro Gln Ala Pro Pro Cys His Glu Ser
Lys Arg Gly Arg Gly Ala Val Ala His Asp Cys Asn Pro Ser Thr Leu
                 85
Gly Gly Xaa Ser Gly Gln Ile Thr Arg Ser Gly Val
            100
<210> 1985
<211> 130
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1985 ·
 Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe \cdot
 Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
```

20 25 30

His Leu Leu Ala Xaa Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val 35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val 50 55 60 . . .

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
65 70 75 80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp 85 90 95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile 100 105 110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg 115 120 125

Leu Pro 130

<210> 1986

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1986

Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val 1 5 10 15

<210> 1987

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1987

Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe 1 5 10 15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His 20 25 30

His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val 35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val 50 55 60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys 65 70 75 80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp 85 90 95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile 100 105 110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg 115 120 125

Leu Pro 130

<210> 1988

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1988

Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp

1 5 10 15

Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala 20 25 30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys 35 40 45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp 50 55 60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
65 70 75 80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg 85 90 95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro 100 105 110

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys 115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met 130 135 140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile 145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa 165 170 175

Leu Tyr Cys Leu Xaa Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys 180 185 190

Tyr Trp Xaa Gly Glu Leu Pro Xaa Val Ala 195 200

<210> 1989

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1989

Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys
1 5 10 15

Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile 20 25 30

Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu 35 40 45

His Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile
50 55 60

Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys 65 70 75 80

Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys 85 90 95

<210> 1990

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids.

PCT/US01/11988 WO 01/77137

<400	> 19	90						_	_	_	_	7	•	a	m
Met 1	Ala	Leu	Ser	Gly 5	Gly	Leu	Arg	Суѕ	Cys 10	Arg	Arg	Val	Leu	Ser 15	Trp
Val	Pro	Val	Leu 20	Vaļ	Ile	Val	Leu	Va1 25	Val	Leu	Trp	Ser	Tyr 30	Tyr	Ala
Tyr	Val	Phe 35	Ġlu	Leu	CAa	Leu	Val 40	Thr	Val	Leu · .	Ser	Pro 45	Ala	Glu	Lys
Val	Ile 50	Tyr	Leu	Ile	Leu	Tyr 55	His	Ala	Ile	Phe	Val 60	Phe	Phe	Thr	Trp
Thr 65	Tyr	Ţŗp	Lys	Ser	Ile 70	Phe	Thr	Leu	Pro	Gln 75	Gln	Pro	Asn	Gln	80 Lys
Phe	His	Leu	Ser	Tyr 85	Thr	Asp	Lys	Glu	Arg 90	Tyr	Glu	Asn	Glu	Glu 95	Arg
Pro	Glu	Val	Gln 100	Lys	Gln	Met	Leu	Val 105	Asp	Met	Ala	Lys	Lys 110	Leu	Pro
Val	Tyr	Thr 115	Arg	Thr	Gly	Ser	Gly 120	Ala	Val	Arg	Phe	Cys 125	Asp	Arg	Cys ·
His	Leu 130	Ile	ŗÀs	Pro	Asp	Arg 135	Cys	His	His	Cys	Ser 140	Val	Cys	Ala	Met
Cys 145	Val	Leu	Lys	Met	Asp 150	His	His	Cys	Pro	Trp 155	Val	Asn	Asn	Cys	Ile 160
Gly	Phe	Ser	Asn	Tyr 165	Lys	Phe	Phe	Leu	Gľn 170	Phe	Leu	Ala	Tyr	Ser 175	Xaa
Leu	Tyr	Суз	Leu 180		Ile	Ala	Thr	Thr 185	Val	Phe	Ser	Tyr	Phe 190	Ile	Lys
Tyr	Trp	Arg 195		Glu	Leu	Pro	Ser 200		Arg	Ser	Lys	Phe . 205	His	Val	Ļeu
Phe	Leu 210		Phe	· Val	Ala	Cys 215		Phe	Phe	· Val	Ser 220	Leu	Val	·Ile	Leu
Phe 225		Tyr	His	. Cys	Trp 230		Val	Ser	Arg	235	Lys	Thr	Thr	Leu	Glu 240
Ala	Phe	· Cys	Thr	Pro 245		Phe	Thr	Ser	Gly 250	Pro	Glu	Lys	Asn	Gly 255	Phe
Asn	Leu	Gly	260		. Lys	Asn	ıle	Gln 265		val	Phe	Gly	Asp 270	Lys	Lys
Lys	Phe	275		ı Ile	e Pro	· Ile	280 280		: Ser	Pro	Gly	Asp 285	Gly	His	Ser
Phe	290		: Arg	g Ser	. Met	295		ı Ser	Glr	ı Asn	300	Leu	. Leu	Ala	Asn
Glu 305		1 Thi	Trj	Glu	Asp ·310		n Glu	ı As <u>r</u>	) Ası	) Asr 315		Asp	туг	Pro	Glu 320
									1290					•	

Gly Ser Ser Ser Leu Ala Val Glu Thr Glu Thr 325 330

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<210> 1991
 <211> 235
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids
' <220>
 <221> SITE
  <222> (221)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <400> 1991 .
 Met Trp Gly Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
  Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
            - 20
  Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
          35
  Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
  Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys
  Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
                                       90.
                   85
  Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
                                 105
  Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
                              120
  Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
                                              140
                          135
  Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
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145 155 150 Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Xaa Pro Trp Phe Gln Val 170 Asp Ala Gly His Pro Thr Arg Phe Leu Gly Gly Ile Thr Gln Gly Lys 190 185 · Glu Leu Leu Ser Gly Gly Glu Gly Arg Leu Thr Leu Xaa Gln Glu Val Gln Xaa Gly Leu Gly Leu Gly Ser Pro Gly Gly Thr Xaa Asp Leu Ser 215 Ser Pro Phe Leu Ala Gly Met Met Gly Ser His 230 <210> 1992 <211> 197 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (169) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (187) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (194) <223> Xaa equals any of the naturally occurring L-amino acids Met Trp Gly Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly 10 Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro 20 Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val .55 Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys 75 80 Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu 90 Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu 105 110 100

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser

- Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg 130 135 140
- Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp 145 150 155 160
- Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val 165 170 175
- Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg 180 185 190

Asn Xaa Val Trp Arg 195

<210> 1993

<211> 197

<212> PRT

<213> Homo sapiens

<400> 1993

- Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
  1 5 10 15
- Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro 20 25 30
- Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro 35 40 45
- Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
- Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys 65 70 75 80
- Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu 85 90 95
- Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu 100 105 110
- Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser 115 120 125
- Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg 130 135 140
- Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp 145 150 155 160
- Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val 165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg 180 185 190

Asn Ser Val Trp Arg 195

<210> 1994

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221>. SITE

<222> (236)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1994

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu 20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val 35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser 50 55 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu

165 170 175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
180 185 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Gly Tyr Ser Leu 210 215 220

Arg Pro Ala Lys Xaa Xaa Cys His Ser Glu Thr Xaa Trp Val Ser Lys 225 230 235 240

Pro

<210> 1995

<211> 340

<212> PRT

<213> Homo sapiens

<400> 1995

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu 20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser 50 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
165 170 175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln 180 185 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile 265 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His 290 295 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser . 325 330 Ile Lys Glu Lys 340 <210> 1996 <211> 85 <212> PRT <213> Homo sapiens <400> 1996 Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Ser Leu Ala 10 15 . Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro 25 . Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg

Trp Pro Ala Gly His

85

. 55

70

Thr Glu Thr Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys

75

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1997

Met Ala Pro Pro Pro Ala Cys Arg Ser Pro Met Ser Pro Pro Pro Pro 1 5 10 15

Leu Leu Leu Leu Leu Leu Ser Leu Ala Leu Leu Gly Ala Arg Ala 20 25 30

Arg Ala Glu Pro Ala Gly Ser Ala Val Pro Ala Gln Ser Arg Pro Cys 35 40 45

Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu
50 55 60

Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg Thr Glu Thr Leu Leu Leu 65 70 75 80

Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys Trp Pro Ala Gly His 85 90 95

<210> 1998

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1998

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His 1 5 10 15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val

20 25 . 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala 50 55 60 .

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Xaa Xaa Xaa 65 70 75 80

Gly Val Val Xaa

<210> 1999

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1999

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val 20 25 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala 50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Val Leu Lys Lys Lys 65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys 100

<210> 2000

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7.6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids.

PCT/US01/11988 WO 01/77137

<400> 2000

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 . 40

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys Lys

Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys 105 -

<210> 2001

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 2001

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu 5 10

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe 25

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu 40 35

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser 55

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu 65

<210> 2002

<211> 75

<212> PRT

<213> Homo sapiens

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu 5 10 15

PCT/US01/11988 WO 01/77137

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe 20

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser 55.

Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu 70

<210> 2003

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln 5 ·

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg 40

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 105 .

Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser 120 115

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 135

Lys Leu Thr

145

<210> 2004 <211>. 147

<212> PRT <213> Homo sapiens

<400> 2004

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg 35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser 50 • 55 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu 65 70 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 100 105 110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser 115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 130 135 140

Lys Leu Thr 145

<210> 2005 · .

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2005

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg 35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser 50 55 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu 65 70 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 105

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser 120

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 140 135

Lys Leu Thr 145

<210> 2006

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2006

Gln Gly Tyr Phe Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu 10

Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His 25

Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr 40

Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro 55

Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile 70

Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala 85 . 90

Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val 105 100

Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu 120 125 115

<210> 2007

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> '

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (34) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2007 Lys Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Asp Leu Trp Pro Thr Xaa Xaa Val Cys Val Thr Ser Ser Leu Xaa Cys Thr Leu Glu Asn Gly Val Pro Cys Val Ile Gln Glu Ser Ala Pro Val His Asn Ser Phe Ile Asp Trp Ser Ala Thr Cys Glu Gly 55 Gln Phe Ser Ser Ala Tyr Cys Pro Leu Glu Leu Asn Asp Tyr Asn Ala 70 Phe Pro Glu Glu Asn Met Asn Tyr Ala Asn Gly Phe Pro Cys Pro Ala 85 Asp Val Gln Thr Asp Phe Ile Asp His Asn Ser Gln Ser Thr Trp Asn 100 ' 105 Thr Pro Pro Asn Met Pro Ala Ala Trp Gly His Ala Ser Phe Ile Ser Ser Pro Pro Tyr Leu Thr Ser Thr Arg Ser Leu Ser Pro Met Ser Gly 130 Leu Phe Gly Ser Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys 155 Cys Pro Ile Asn Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln Ala Val Val Cys Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala 185 Tyr Met Asn Leu Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn 200 Phe Pro Leu Ser Arg Asp Ser Ser Tyr Cys Gly Asn Val 215

<210> 2008

<211> 166

<212> PRT

<213> Homo sapiens

Ala Ala Val Asn Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys 25

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Pro Thr

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser 70

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile 100

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser 120 125

Val Phe Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg 135 130

Val Ile Pro Ala Met Gly Lys Thr Ser Ser Glu Leu Phe Ser Tyr Leu 155

Thr Glu Glu Gly Ser Ile 165

<210> 2009

<211> 19

<212> PRT

<213> Homo sapiens

<400> 2009 Ile Pro Cys Thr Arg Pro Leu Gly Phe Pro Cys Gly Ser Asn Val Pro 10 5 .

Trp Trp Gly

<210> 2010

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE,

. <222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

-222	> SI	RRI	1 ~		. of	the	natu	rall	v oc	curr	ing	L-am	ino	acid	s '
<223	> xa	a eq	uais	ani	, OL	CITE	11000		,	-					
<400 Met 1	> 20 Ala	10 Gly	Leu	Arg 5	Arg	Pro	Gln	Pro	Gly 10	Cys	Tyr	Cys	Arg	Thr 15	Ala
Ala	Ala	Val	Asn 20	Leu	Leu	Leu	Gly	Val 25	Phe	Gln	Val	Leu	Leu 30	Pro-	Cys
Суз	Arg	Pro 35	Gly	Gly	Ala	Gln	Gly 40	Gln	Ala	Ile	Glu	Pro 45	Leu	Pro	Asn
Val	Val 50	Glu	Leu	Trp	Gln	Ala 55	Glu	Glu	Gly	Glu	Leu 60	Leu	Leu	Pro	Thŗ
Gln 65	Gly	Asp	Ser	Glu	Ģlu 70	Gly	Leu	Glu	Glu	Pro 75	Ser	Gln	Glu	Ģln	Ser 80
Phe	Ser	Asp	Lys	Leu 85		Ser	Gly	Lys	Gly 90	Leu	His	Phe	Gln	Pro 95	Ser
Val	Leu	Asp	Phe 100		Ile	Gln	Phe	Leu 105	Gly	His	Pro	Val	Ala 110	Lys	Ile
Leu	His	Ala 115		Asn	Pro	Ser	Arg 120	Asp	Ser	Glu	Val	Val 125	Val	Asn	Ser
Val	Phe 130		Ala	Ala	Gly	His 135	Phe	His	Val	Pro	Pro 140	Val	Pro	Cys ·	Arg
Val 145		Pro	Ala	Met	: Gly 150		Thr	Ser	Phe	Arg 155	Ile	Ile	Phe	Leu	Pro 160
Thr	Glu	Glu	. Gly	ser 165	: Ile	Glu	Ser	Ser	Leu 170	Xaa	Ile	e Asn	Thr	Ser 175	Ser
Tyr	: Gly	v Val	. Lei 18(		туй	His	val	Ser 185	Gly	/ Ile	e Gly	Thr	190	Arg	, Ile
Ser	Thr	Glu 195		y Sei	r Ala	a Lys	Gln 200	Lev	Pro	) Asr	n Ala	205	Phe	e Leu	ı Leu
Pro	Lys 210		L Gli	n Se	r Ile	e Glr 21	n Lev 5	ı Sei	c Glr	n Met	220	n Ala	a Glu	ı Thr	Thr
As:		r Sei	r Le	u Le	u Gli 23		l Glr	ı Le	ı Glı	23!	s Se: 5	r Let	u His	s Ası	1 Lys 240
Va:	l Cy	s Gl:	n Gl	n Le	u Ly: 5	s Gl	y Cys	з Ту:	r Le	ս Gl <sup>.</sup> 0	u Se	r As	p As	o Vai 25	l Leu 5
Ar	g Le	u Gl	n Me		r Il	e Me	t Va	l Th	r Me 5	t Gl	u As	n Ph	e Se: 27	C Ly	s Gl
Ph	e Gl	u Gl 27		n Th	ır Gl	n Hi	s Le	u Le 0	u As	р Ні	s Le	u Se 28	r Il 5	e Va	1 ту

Val Ala Thr Asp Glu Ser Glu Thr Ser Asp Asp Ser Ala Val Asn Met 295 Tyr Ile Leu His Ser Gly Asn Ser Leu Ile Trp Ile Gln Asp Ile Arg 310 His Phe Ser Gln Arg Asp Ala Leu Ser Leu Gln Phe Glu Pro Val Leu 330 Leu Pro Thr Ser Thr Thr Asn Phe Thr Lys Ile Ala Ser Phe Thr Cys Lys Ala Ala Thr Ser Xaa Asp Ser Gly Ile Ile Glu Asp Val Lys Lys 360 Thr Thr His Thr Pro Thr Leu Lys Ala Cys Leu Phe Ser Ser Val Ala Gln Gly Tyr Xaa Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu 395 390 · Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr 425 Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro 440 Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala 470 Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val 490 485 Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu 505 500

<210> 2011

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2011

Met Ile Ala Leu Leu Lys Ile Leu Leu Ala Ala Pro Thr Ser Lys
1 5 10 15

Ala Lys Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu 20 25 30

Met Pro Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn 35 40 45

Arg His Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu 50 55 60

Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met 65 70 75 80

Ala Gln His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe 85 90 95

Phe Asn Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser 100 105 110

Val Leu Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr 115 120 125

Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn 130 135 140

Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys 145 150 150

Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro 165 170 175

Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr 180 185 190

Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp 195 200 205

Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg 210 215 220

His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg 225 230 235 240

Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu 245 250 255

Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe 260 265 270

Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp 275 280 285

Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu 290 295 300

Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln 305 310 315

<210> 2012

<211> 957

<212> PRT

<213> Homo sapiens

<400> 2012

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro

1				5					10					12	
Cys	Gly	Ala	Trp 20	Ala	Leu :	Arg .	Asp '	Thr 25	Pro	Ile	Pro .	Arg '	Trp 1	Lys 1	Leu
Ser	Ser	Ala 35	Glu	Thr	Tyr	Ser	Arg 40.	Met	Arg	Leu	Lys ·	Leu 45	Val :	Pro .	Asn
His	His 50	Phe	Asp	Pro	His	Leu 55	Glu	Ala	Ser	Ala	Leu 60	Arg	Asp .	Asn	Leu
65					70	٠.				Ala 75					80
				85		•			90	Pro				95	
			100					105		Leu		•	110		
		115				•	120			Leu		125	•	·	
	130					135			•	Pro	140		•		
145					150					Ser 155		•	•		160
				165		٠	•		170				*	175	
			180					185		Arg			190		
		195					200			Leu		205	,		
	210					215				Gln	220		•		
225					230					Arg 235					240
				245	•				250					255	Arg
			260			•		265		Leu			270		
•		275	5				280	1		ı Met	•	285			
	290	)				295	5				300	)			Trp
305	5				310	)				315	5				Ala 320
٧a:	l Phe	e Arg	j Asj	o Lei	ı Ser	. Lys	s Pro		9 Gly 1308		ı Val	L Asr	ı Pro	р гуда	Hi,s

					325					330					335	
1	Ala	Gln	Leu	Val 340	Arg	Glu	Lys	Tyr	Glu 345	Ser	Phe	Glu	Asp	Pro 350	Ala	Gly
	Thr	Ile	Asp 355	Lys	Phe	His	Tyr	Gly 360	Thr	His	Tyr	Ser	Asn 365	Ala	Ala	Gly
•	Val	Met 370	His	Tyr	Leu	Ile	Arg 375	Val	Glu	Pro	Phe	Thr 380	Ser	Leu	His	Val
	G1n 385	Leu	Gln	Ser	Gly	Arg 390	Phe	Asp	Cys	Ser	Asp 395	Arg	Gln	Phe	His	Ser 400
	Val	Ala	Ala	Ala	Trp 405	Gln	Ala	Arg	Leu	Glu 410	Ser	Pro	Ala	Asp	Val 415	Lys
				420		Phe			425					430	٠,	
			435			Gly		440					445			
		450			•	Pro	455					460				
	465					Leu 470			•		475					480
			•		485	Ile				490					495	
			•	500		Val			505					210		
			515	;		Thr		520					525			
•		530	)			Gly	535	i				540	٠.			
	545	,				550				٠	555	i				560
		•			565					570	)				5/5	
				580	)	ı Val			585	5				590	)	
			59!	5		g Gln		600	)				60:	•	٠	,
		61	0.			r Val	615	5			٠,	620	D			
	629	5				630	)				63	5				
	Asj	o Pr	o Th	r Me	t Gl	y Sei	c Hi	s Ly:	s Th	r Gl	n Ar	g Le	u Le	u se	r GI	y Pr

1309

WO 01/77137 655 650 645 Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His 695 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu 715 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr 795 · Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile 810 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr 825 Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro 840 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu 855 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu 870 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val 890 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly

Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser 920

Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val 935

Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg 950

<210> 2013

<211> 57 <212> PRT

<213> Homo sapiens

<400> 2013

Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
1 5 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser 20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met 35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser 50 55

<210> 2014

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2014

Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
1 5 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser 20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser 50 55

<210> 2015

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2015

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
1 5 10 15

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly 20 25 30 .

Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys

Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro 50 55 60

Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys

65 70 75

<210> 2016 <211> 42

<212> PRT

<213> Homo sapiens

<400> 2016

Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu 1 5 15

Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile 20 25 30

Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser 35 40

<210> 2017

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2017

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly 20 25 30

Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln 35 40 45

Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
50 55 60

Leu Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys 65 70 75 80

Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu 100 105 110

Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
115 120 125

Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala 130 135 140

Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala 145 150 155 160

Met Gln Thr Gly Ser Pro Ala Ser Thr 165

<210> 2018 <211> 45 <212> PRT

<213> Homo sapiens

<400> 2018

Met Val Lys His Phe Thr Leu Trp Met Val Cys Leu Ser Leu Val Phe

Arg Lys Leu Leu Ser Leu Leu Pro Lys Lys Glu Gly Gln Val Asn

Phe Phe Asn Gln Lys Lys Ile Thr His Phe Ile Lys Pro

<210> 2019

<211> 388

<212> PRT

<213> Homo sapiens

<400> 2019

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu 

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys 75

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu 90

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly 105

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro 120

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg 135

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu 150

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys 165

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro . 185 180

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp 195 200 205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala 210 215 220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro 225 230 235 240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu 245 250 255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile 260 265 270

Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr 275 280 285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe 290 295 300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser 305 310 315 320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Fle Phe His Leu Met Gln 325 330 335

Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu 340 · 345 350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His 355 360 365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu 370 375 380

Pro Ala Pro Cys 385

<210> 2020

<211> 554

<212> PRT

<213> Homo sapiens

<400> 2020

Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly
1 5 10 15

Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg
20 25 30

Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu 35 40 45

Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu 50 60 .

Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu 105 Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe 120 Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys . 135 Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr 150 Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln 200 Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val 235 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val . 250 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly 260 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala 280 Glu Gly Asn Asp Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser 295 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg 315 305 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala 330 325 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys 360 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu 380 375 370

PCT/US01/11988

WO 01/77137 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile 390 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro 405 . Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala 425 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn 455 · Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro 475 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln 490 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg 505 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro 520 Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro 540 535 Glu Lys Glu Lys Lys Lys Lys Lys Lys . 550 <210> 2021 <211> 509 <212> PRT <213> Homo sapiens <400> 2021 Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp 10 1 Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg. Gly Ser 25

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro 40 .

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser 55

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val 65

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp 90

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly

			100					105					110		
Ser	Pro	Arg 115	Glu	Met	Ile	Arg	Asp 120	Glu	Gly	Ser	Ser	Ala 125	Arg	Ser	Arg
Met	Leu 130	Arg	Phe	Pro		Gly 135	Ser	Ser	Ser	Pro	Asn 140	Ile	Leu	Ala	Ser
Phe 145	Ala	Gly	Lys	Asn	Arg 150	Val	Trp	Val	Ile	Ser 155	Ala	Pro	His	Ala	Ser 160
Glu	Gly	Tyr	Tyr	Arg 165	Leu	Met	Met	Ser	Leu 170	Ĺeu	Lys	Asp	Asp	Val 175	Tyr
Суѕ	Glu	Leu	Ala 180	Glu	Arg	His	Ile	Gln 185	Gln	Ile	Val	Leu	Phe 190	His	Gln
Ala	Gly	Glu 195		Gly	Gly	Lys	Val 200	Arg	Arg	Ile	Thr	Ser 205	Glu	Gly	Gln
Ile	Leu 210		Gln	Pro	Leu	Asp 215	Pro	Ser	Leu	Ile	Pro 220	Lys	Leu	Met	Ser
Phe 225	Leu	Lys	Leu	Glu	Lys 230	Gly	Lys	Phe	Gly	Met 235	Val	Leu	Leu	Lys	Lys 240
Thr	Leu	Gln	. Val	Glu 245	Glu	Arg	Tyr	Pro	Tyr 250	Pro	Val	Arg	Leu	Glu 255	Ala
,	,		260					265		•			270		
		275	j	Phe			280					285	•		
	290	)		a Glu		295					300				
305	•			Glu	310	I		`		315	)				320
				g Glu 325	5				330	) .					).
			340					345	5				350	)	
		35	5	a Pro			360	)				36			
	37	0	•	a Ala		375	5				38	U			
Gl: 385	_	g Pr	o Tr	p Thi	390		r Pro	Se:	r Hi	s Arg	g Pro	o Pr	o Thi	r Thi	r Th:
				r Ala 40	5			•	41	0				41	• • .
Pr	o Se	r Ar	g Ļy	s As	p Gl	n Hi	s Ar	g Gl	u Ar 1317	_	o Gl	n Th	r Th	r Ar	g Ar

420 425 430

Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr 435 440 445

Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg 450 455 460

Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val 465 470 475 480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys 485 490 495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
500 505

<210> .2022

<211> 264

<212> PRT

<213> Homo sapiens

<400> 2022

Met Cys Leu Leu Gly Ala Leu Val Leu Leu Gly Leu Gly Val Leu Leu

1 5 10 15

Phe Ser Gly Gly Leu Ser Glu Ser Glu Thr Gly Pro Met Glu Glu Val

Glu Arg Gln Val Leu Pro Asp Pro Glu Val Leu Glu Ala Val Gly Asp 35 40 45

Arg Gln Asp Gly Leu Arg Glu Gln Leu Gln Ala Pro Val Pro Pro Asp 50 55 60

Ser Val Pro Ser Leu Gln Asn Met Gly Leu Leu Leu Asp Lys Leu Ala 65 70 75 80

Lys Glu Asn Gln Asp Ile Arg Leu Leu Gln Ala Gln Leu Gln Ala Gln
85 90 95

Lys Glu Glu Leu Gln Ser Leu Met His Gln Pro Lys Gly Leu Glu Glu
100 105 110

Glu Asn Ala Gln Leu Arg Gly Ala Leu Gln Gln Gly Glu Ala Phe Gln
115 120 125

Arg Ala Leu Glu Ser Glu Leu Gln Gln Leu Arg Ala Arg Leu Gln Gly 130 135 140

Leu Glu Ala Asp Cys Val Arg Gly Pro Asp Gly Val Cys Leu Ser Gly 145 150 155 160

Gly Arg Gly Pro Gln Gly Asp Lys Ala Ile Arg Glu Gln Gly Pro Arg 165 170 175

Glu Gln Glu Pro Glu Leu Ser Phe Leu Lys Gln Lys Glu Gln Leu Glu 180 185 190

Ala Glu Ala Gln Ala Leu Ser Leu Glu Glu Val Ala Val Gln Gln Thr

Gly Asp Asp Glu Val Asp Asp Phe Glu Asp Phe Ile Phe Ser His

Phe Phe Gly Asp Lys Ala Leu Lys Lys Arg Ser Gly Lys Lys Asp Lys 235 240

His Ser Gln Ser Pro Arg Ala Ala Gly Pro Arg Glu Gly His Ser His

Ser His His His His Arg Gly 260

<210> 2023

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2023

Met Leu Cys Leu Ser Ser Val Val Met Phe Leu Pro Gln Pro Gly Ala 10

Ala Ser Asp Pro Leu Phe Ile Trp Glu Ala Ser Cys His Ser Leu Gly

Gln Asn Trp Ala Gln Gly Lys Gly Leu Ser Pro Glu Asp Gly Leu Glu

Gly Leu Gly His Thr Arg Ala Trp Thr Phe Gly Ala Gly Glu Pro Gly 55

Leu Arg Leu Leu Asn Val Arg Gly Leu Leu Thr Arg Gly Pro Ser Arg 70

Gly Ser Leu Cys Pro Leu Leu Trp Ser Asp Gln Ala Leu His Leu Ser 90 .

· Ala Gly Pro Leu Trp Gln Arg Ser Pro Val Leu Phe Leu Leu Phe Leu

Phe Leu Thr Lys Ala Cys Ala Thr Ser Cys Pro 115 120

<210> 2024

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2024

Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val

> 30 25 20

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg

Leu Glu His Val Lys Gly Ile Phe Lys

<210> 2025

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2025

Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg 40.

Leu Glu His Val Lys Gly Ile Phe Lys

<210> 2026

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2026

Met Glu Ile Arg Thr Arg Val Val Trp Leu Cys Leu Cys Leu Cys Leu 1 5 10 ...

Cys Leu Cys Leu Cys Leu Ser Leu Phe Ser Leu Pro Xaa Ser Leu Ser

Pro Leu Pro Ser Pro Leu Ser Leu Ser Val Ser Leu Ser Leu Ser Phe . 40

His Gly Leu Pro Leu Met Pro Ser Arg Ser Trp Thr Val Leu Leu Pro 55

Ser Gln Leu Thr Ala Thr Ser Leu Pro Asp Ser Pro Ala Ser Ala Cys 70 75

Arg Val Pro Ala Ile Ala Gly Ala Arg His His Ala 85

<210> 2027 <211> 82

<212> PRT

<213> Homo sapiens

<400> 2027

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg

1 5 10 15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg 20 25 30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala 35 40 45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr 50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser 65 70 75 80

Lys Ser

<210> 2028

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2028

Met Val Thr Ala Ser Leu Leu Leu Pro Ala Val Met Ala Ile Val 1 5 10 15

Phe Pro Ile Thr Trp Ala Val Gln Ser Gln Ser Trp Ala Ala Glu Phe 20 25 30

Asn Gly Ala Cys Phe Gln Val Leu His Gly Lys Leu Tyr Ser 35 40 45

<210> 2029

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2029

Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro

Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr

Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg 35 40 45

Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val

Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg 80

Leu Ser Gln Asp Pro 85 Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly 95

Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu 110 Cln Leu 110

Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr 125

Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro Gly Pro 140

Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser Ala Ser Info

<210> 2030 <211> 168 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (83) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2030 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val 35 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His 90 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly

105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu 130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys 165

<210> 2031 .

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His 85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Xaa Leu Leu Xaa His Ala Ser Ala Pro Val Arg 115 120 125

Thr Val Cys Ala Leu Thr Trp 130 135 PCT/US01/11988

WO 01/77137 <211> 168 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (39) <223> Xaa equals any of the naturally occurring L-amino acids Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 25 Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 60 . Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 75 Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His 90 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 105 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu 135 · Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 155 150 Ser Arg Asn Gly Leu Val Gly Cys

165

<210> 2033 .

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly 5 10

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly

20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Met Tyr 35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg 50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr 65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met 85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala 100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu 115 120 125

Gln Val Val Lys Ala Lys 130

<210> 2034

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2034

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 25 30

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His 85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu 130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 145 150 150 160

Ser Arg Asn Gly Leu Val Gly Cys 165

<210> 2035

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Met Tyr 35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg 50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr 65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met 85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala 100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu 115 120 125

Gln Val Val Lys Ala Lys. · 130

<210> 2036

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2036

Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp

1 5 10 15

Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp 155 150 Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala 170 Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys 185 · Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys 200 Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly . 215 Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu 230 Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala 245 Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu 290 Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro 315 305

330

Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln

Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys 340 345 350

Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys 355 360 365

Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn 370 375 380

Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp 385 390 395 400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe 405 410 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu 420 425 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly
435 440 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu 450 455 460

Gln Asn Ile His 465

<210> 2037

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037

Met Leu Leu Ala Gln Gly Leu Ile Leu His Phe Leu Gly Arg Ala Trp
1 5 10 15

Thr Trp Pro Asp Ala Leu Asn Ile Glu Asn Ser Asp Ser Glu Ser Trp 20 25 30

Thr Ser His Thr Val Lys Lys Phe Thr Ala Ser Phe Glu Ala Ser Leu 35 40 45

Ser Gly Glu Arg Glu Phe Lys Thr Pro Thr Ile Ser Leu Lys Glu Thr 50 55 60

Ile Gly Lys Tyr Ser Asp Asp His Glu Met Arg Asn Glu Val Tyr His 65 70 75 80

Arg Lys Ile Ile Ser Trp Phe Gly Asp Ser Pro Leu Ala Leu Phe Gly 85 90 95

Leu His Gln Leu Ile Glu Tyr Gly Lys Lys Ser Gly Lys Lys Ala Gly 100 105 110

Asp Trp Tyr Gly Pro Ala Val Val Ala His Ile Leu Arg Lys Ala Val Glu Glu Ala Arg His Pro Asp Leu Gln Gly Ile Thr Ile Tyr Val Ala 135 Gln Asp Cys Thr Val Pro Val Arg Leu Gly Gly Glu Arg Thr Asn Thr 150 155 Asp Tyr Leu Glu Phe Val Lys Gly Ile Leu Ser Leu Glu Tyr Cys Val Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe 185 190 Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe 200 Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile 235 Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu 250 245 Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe 265 Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr 280 275 Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys 295 Arg Phe Ser Thr Glu Glu Phe Val Leu Leu 310 305

<210> 2038

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2038

Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr

Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val 20 25 30

Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp 35 40 45

Phe Ser Leu Pro Val Ser Val Cys 50 55

<210> 2039 <211> 414 <212> PRT <213> Homo sapiens <400> 2039 Met Lys Ala Gln Thr Ala Leu Ser Phe Phe Leu Ile Leu Ile Thr Ser Leu Ser Gly Ser Gln Gly Ile Phe Pro Leu Ala Phe Phe Ile Tyr Val 25 Pro Met Asn Glu Gln Ile Val Ile Gly Arg Leu Asp Glu Asp Ile Ile Leu Pro Ser Ser Phe Glu Arg Gly Ser Glu Val Val Ile His Trp Lys Tyr Gln Asp Ser Tyr Lys Val His Ser Tyr Tyr Lys Gly Ser Asp His Leu Glu Ser Gln Asp Pro Arg Tyr Ala Asn Arg Thr Ser Leu Phe Tyr 90 Asn Glu Ile Gln Asn Gly Asn Ala Ser Leu Phe Phe Arg Arg Val Ser 105 Leu Leu Asp Glu Gly Ile Tyr Thr Cys Tyr Val Gly Thr Ala Ile Gln 125 120 Val Ile Thr Asn Lys Val Val Leu Lys Val Gly Val Phe Leu Thr Pro 135 Val Met Lys Tyr Glu Lys Arg Asn Thr Asn Ser Phe Leu Ile Cys Ser . 155 150 Val Leu Ser Val Tyr Pro Arg Pro Ile Ile Thr Trp Lys Met Asp Asn 170 165 · Thr Pro Ile Ser Glu Asn Asn Met Glu Glu Thr Gly Ser Leu Asp Ser 180 Phe Ser Ile Asn Ser Pro Leu Asn Ile Thr Gly Ser Asn Ser Ser Tyr 200 Glu Cys Thr Ile Glu Asn Ser Leu Leu Lys Gln Thr Trp Thr Gly Arg 220 210 Trp Thr Met Lys Asp Gly Leu His Lys Met Gln Ser Glu His Val Ser 235 225 Leu Ser Cys Gln Pro Val Asn Asp Tyr Phe Ser Pro Asn Gln Asp Phe 250 245 Lys Val Thr Trp Ser Arg Met Lys Ser Gly Thr Phe Ser Val Leu Ala 265· Tyr Tyr Leu Ser Ser Ser Gln Asn Thr Ile Ile Asn Glu Ser Arg Phe

1330

285 280 275

Ser Trp Asn Lys Glu Leu Ile Asn Gln Ser Asp Phe Ser Met Asn Leu 295

Met Asp Leu Asn Leu Ser Asp Ser Gly Glu Tyr Leu Cys Asn Ile Ser 310

Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro 330

Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro 345

Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys 360

Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala

Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala

Pro Asp Asn Gly Glu Glu Asn Val Pro Leu Ser Gly Lys Val 410

<210> 2040

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2040

Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser

Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp 2.0

Lêu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg

Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met 50

Val Glu Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala

Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu

Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu 105

Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly

Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp 140 135

Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp 155

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly 170 .

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly 185

Lys Lys Gln Lys His Tyr Pro Tyr

<210> 2041

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2041

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr 

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys 40

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe 55

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr 1.00

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe 120 ·

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys 130

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp 155 · 160 150

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val 185

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe 195 200 . 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr 215

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu 235 230

Lys Ala Thr Arg Ala Pro His Thr Asp 245

<210> 2042

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2042

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr 10

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe 55

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val 8.5

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr 100 ·

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe 120 115

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys 130

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp 155

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro 170

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val 185 ´

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu

225

230

235

240

·Lys Ala Thr Arg Ala Pro His Thr Asp 245

<210> 2043

<211> 60

<212> PRT

<213> Homo sapiens

<400> 2043

Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Ala Leu Ala Thr Ser 25

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly 35 40

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu 55

. <210> 2044

<211> 60.

<212> PRT

<213> Homo sapiens

<400> 2044

Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser 25

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly 40 35 . .

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu 55 50

<210> 2045

<211> 310

<212> PRT

<213> Homo sapiens

<400> 2045

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 25

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 1334

35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 . 70 . 75 . 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 2046

<211> 310

<212> PRT

<213> Homo sapiens

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His

Lys Ser Ser Phe Val Ile 305 310

<210> 2047 <211> 310 <212> PRT <213> Homo sapiens

<40.0> 2047

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro

1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

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Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 295

Lys Ser Ser Phe Val Ile

<210> 2048

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2048

Met His Met Leu Asn Gly Ala Leu Leu Ala Leu Leu Phe Pro Val Val

Asn Thr Arg Leu Leu Pro Phe Glu Leu Glu Ile Tyr Tyr Ile Gln His

Val Met Leu Tyr Val Val Pro Ile Tyr Leu Leu Trp Lys Gly Gly Ala

Tyr Thr Pro Glu Pro Leu Ser Ser Phe Arg Trp Ala Leu Leu Ser Thr

Gly Leu Met Phe Phe Tyr His Phe Ser Val Leu Gln Ile Leu Gly Leu 75

Val Thr Glu Val Asn Leu Asn Asn Met Leu Cys Pro Ala Ile Ser Asp 90

Pro Phe Tyr Gly Pro Trp Tyr Arg Ile Trp Ala Ser Gly His Gln Thr 105

Leu Met Thr Met Thr His Gly Lys Leu Val Ile Leu Phe Ser Tyr Met 120

Ala Gly Pro Leu Cys Lys Tyr Leu Leu Asp Leu Leu Arg Leu Pro Ala · . 135

Lys Lys Ile Asp 145

<210> 2049

<211> 413

<212> PRT

<213> Homo sapiens

<400> 2049

Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys

Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly 25 · 20

Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val Leu Pro Gly Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala 155 Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu 170 Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn 185 Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg 200 Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys 230 Pro Gln Gly Tyr Gln Val Val Arg Ser Arg Thr Cys Gln Asp Ile Asn Glu Cys Glu Thr Thr Asn Glu Cys Arg Glu Asp Glu Met Cys Trp Asn Tyr His Gly Gly Phe Arg Cys Tyr Pro Arg Asn Pro Cys Gln Asp Pro Tyr Ile Leu Thr Pro Glu Asn Arg Cys Val Cys Pro Val Ser Asn Ala . Met Cys Arg Glu Leu Pro Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile 315 Arg Ser Asp Arg Ser Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr Thr Ile Tyr Ala Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn 350 345

Glu Asn Gly Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val Ser Ala Met 355 360 365

Leu Val Leu Val Lys Ser Leu Ser Gly Pro Arg Glu His Ile Val Asp 370 375 380

Leu Glu Met Leu Thr Val Ser Ser Ile Gly Thr Phe Arg Thr Ser Ser 385 390 395 400

Val Leu Arg Leu Thr Ile Ile Val Gly Pro Phe Ser Phe 405 410

<210> 2050

<211> 683

<212> PRT

<213> Homo sapiens .

<400> 2050

Met Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala 1 5 10 15

Leu Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile 20 25 30

Thr Arg Pro Gln Pro Val Leu Pro Leu Asp Leu Asn Asn Gln Ser

Val Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn
50 60

Asp Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val 65 70 75 80

Phe Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr 85 90 95

Arg Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser 100 105 110

Asp Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys 115 120 125

Ser Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu 130 135 140

Trp Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val
145 150 155 160

Pro Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn 165 170 175

Lys Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu 180 185 190

Val Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val 195 200 205

Ile Ile Leu Met Asp Pro Phe Asp Asp Leu Lys Gln Arg Gly Glu 215 Lys Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly 230 Lys Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser Val Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met Ile Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys 280 Val Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr 300 295 . Leu Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr Ser Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu 330 Ala Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro 345 Arg Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr 360 Pro Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys Glu Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu 395 390 Ile Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile 410 Val Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg Ala Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys Thr Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His 450 Val Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala 475 Asp Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys Gly Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln 505 Glu Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg 525 520

Trp Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile 530 540

Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn 545 550 555 560

Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu 565 570 575

Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val 580 585 589

Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu 595 600 605

Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln 610 615 620

Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala 625 630 635

Ile Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Thr 645 650 655

Pro Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr 660 665 670

Gln Ile Asp Ser Leu Tyr Glu His Ile Gln Asp 675 680

. <210> 2051

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2051

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg

1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp 20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn 35 40 45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala 50 55. 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn 65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu 85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala 100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr

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> 125 120 115

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser 135

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val 155

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys

Phe His Ile Met Phe Leu Phe Phe Ala Ala Met Phe Ser Val Ser

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys 235 230

. Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp 245 250

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Phe 265

Gly Asp Glu Lys Lys Tyr Trp Leu Leu Pro Ile Phe Ser Ser Leu Gly 280

Asp Gly Cys Ser Phe Pro Thr Leu Pro Cys 295

<210> 2052

<211> 286

<212> PRT

<213> Homo sapiens

<400> 2052

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp 25

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn 40 35

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala 55

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu . . 90 85

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Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala

- Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr 120
- Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser
- Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val 155
- Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu 170
- Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
- Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys 200
- Phe His Ile Met Phe Leu Phe Phe Ala Ala Met Phe Ser Val Ser
- Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys 235
- Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp 250
- Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Leu 265
- Val Met Arg Arg Ser Thr Gly Cys Tyr Pro Phe Phe Gln Val 280 . 275

<210> 2053

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2053

Met Ser His Gly Ser Gln Pro Phe Leu Leu Leu Ser Leu His Ile

Leu Ile Leu Ala Gly Ser Phe Leu Leu Phe Ser Pro Tyr Thr Ala Lys 25 30

Pro Ser Phe Ser Ser Ser Phe Ile Val Phe Pro Arg Ala Glu Met 40

<210> 2054

<211> 914

<212> PRT

<213> Homo sapiens

<400> 2054 Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr 25 Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu 85 Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro . . 100 Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys 120 115 Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu Trp Ala His 155 Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr 170 Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys 200 Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala 235 230 Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn 245 Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr 265 Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met 280 275 -Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln 295 Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly

305			•		310					315					320
Asn	Arg	Leu	Asn	Arg 325	Leu	Asn	Gln	Ala	Gly 330	Gln	Leu	Phe	Leu	Leu 335	Gln
Thr	Val	Glu	Leu 340	Gly	Ser	Trp	Val	Gly 345	Met	Val	Thr	Phe	Asp 350	Ser	Ala
Ala	His	Val 355	Gln	Ser	Glu	Leu	Ile 360	Gln	Ile	Asn	Ser	Gly 365	Ser	Asp	Arg
Asp	Thr 370	Leu	Ala	Lys	Arg	Leu 375	Pro	Ala	Ala	Ala	Ser 380	G1y	Gly	Thr	Ser
Ile 385	Cys	Ser	Gly	Leu	Arg 390	Ser	Ala	Phe	Thr	Val 395	Ile	Arg	Lys	Lys	Tyr 400
Pro	Thr	Asp	Gly	Ser 405	Glu	Ile	Val	Leu	Leu 410	Thr	Asp	Gly	Glu	Asp 415	Asn
Thr	Ile	Ser	Gly 420	Cys	Phe	Asn	Glu	Val 425	Lys	Gln	Ser	Gly	Ala 430	Île	Ile
His	Thr	Val 435	Ala	Leu	Gly	Pro	Ser 440	Ala	Ala	Gln	Glu	Leu 445	Glu	Glu	Leu
Ser	Lys 450	Met	Thr	Gly	Gly	Leu 455	Gln	Thr	Tyr	Ala	Ser 460	Asp	Gln	Val	Gln
Asn 465	Asn	Gly	Leu	Ile	Asp 470	Ala	Phe	Gly	Ala	Leu 475	Ser	Ser	Gly	Asn	Gly 480
Ala	Val	Ser	Gln	Arg 485	Ser	Ile	Gln	Leu	G1u 490	Ser	'FÀ2	Gly	Leu	Thr 495	Leu
Gln	Asn	Ser	Gln 500		Met	Asn	Gly	Thr 505		Ile	Val	Asp	Ser 510	Thr	Val
Gly	Lys	Asp 515		Leu	Phe	Leu	11e 520		Trp	Thr	Thr	Gln 525	Pro	Pro	Gln
Ile	Leu 530		Trp	Asp	) Pro	Ser 535		Gln	Lys	Gln	Gly 540	Gly	Phe	Val	Val
Asp 545		. Asr	Thr	: Lys	550		Tyr	Leu	Gln	11e 555	Pro	Gly	Ile	Ala	Lys 560
Val	. Gly	Thr	Trp	565		Ser	Leu	Gln	1 Ala 570	Ser	Ser	Gln	Thr	Leu 575	Thr
Leu	Thi	. Val	580		Arg	Ala	a Ser	585		Thr	Leu	Pro	9ro 590	Ile	Thr
Va]	. Thi	595		s Thi	c Ası	Lys	Asr 600		Ser	. Lys	Phe	Pro 605	Ser	Pro	Leu
Va]	Val		r Ala	a Ası	n Ile	Arg 619		ı Gly	y Ala	a Ser	Pro 620	Ile	e Leu	Arg	, Ala
Sea	va:	l Th	r Ala	a Le	u Ile	e Glu	ı Sei		l Ası 1346		, Lys	Thr	Val	. Thi	Leu

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635 630 625 Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly 650 Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu 760 Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg 795 · Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro 810 Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile 825 Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp 840 Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu 855 Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr 875 Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile 890 His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser 905

Ile Ala

900

<210> 2055 <211> 83

<212> PRT

<213> Homo sapiens

<400> 2055

Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu Pro Pro Cys Cys Cys 1 5 10 15

Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser 20 25 30

Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe 35 40 45

Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Ser Leu Phe Pro Arg 50 55 60

Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp 65 70 75 80

Gly Trp Met

<210> 2056 ·

<211> 68

<212> PRT

<213> Homo sapiens

<400> 2056

Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu
1 5 10 15

Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser 20 . 25 30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro

Leu Ser His Leu

<210> 2057

<211> 73

<212> PRT

<213> Homo sapiens

<400> 2057

Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr

His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu 20 25 30

Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His

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35 . 40 45

Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser 50 55 60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys
65 70

<210> 2058

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<211> 85

<212> PRT

<213> Homo sapiens

<400> 2058

Met Gln Val Phe Phe Leu Ser Glu Ile Gly Met Leu Trp Val Val 1 5 10 15

Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr 20 25 30

Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys 35 40 45

Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro 50 55 60

Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg
65 70 75 80

Val Gly Glu Arg Thr 85

<210> 2059

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2059

Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys
1 5 10 15

Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val 20 25 30

Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe . 35 40 45

Met Cys Gly 50

<210> 2060

<211> 354

<212> PRT

<213> Homo sapiens

<400> 2060 Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe 55 Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln 85 Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile 105 100 Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp 115 Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala 155 145 Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr 170 Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn 200 Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser 235 230 Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn 245 250 Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu 265

Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr 275 280 285

Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu 290 295 300

Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile

305 310 315 320

Met Ser Ala Pro Val Tyr Asp Ala Ile Lys Leu Met Lys Asp Ile Ser 325 330 335

Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu 340 345 350

Ile Gly

<210> 2061

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2061

Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu

1 5 10 15

Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp 20 25 30

Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr 35 40 45

Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser 50 55 60

Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val 65 70 75 80

Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Leu Ser Val Val Phe 85 90 95

Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser 100 105 110

Gln Gly Ser Gln Ser Ala Leu Gln Thr Cys Glu Tyr Tyr Pro Lys Thr 115 120 125

Cys Leu Gln Val Gly Val Gly Leu Glu Lys Glu Gln Arg Cys Phe Lys 130 135 140

Ile Lys Gln Gln Gly Leu His Ile Ile Val Ser Asp Lys 145 150 155

<210> 2062

<211> 67

<212> PRT

<213> Homo sapiens

<400> 2062

Met Val Leu Gly Phe Val Leu Leu Leu Phe Asn Met Gly Gly Thr Phe 1 5 10 15

Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys 20 25 30

Asp Phe Ile Met Lys Pro Ser Pro Ala Leu Ile Leu Val Thr Ser Val 35 40 45

Gly Pro Val Leu Leu Gln Asn Ala Ser Trp Val Ser Val Cys Arg Thr
50 55 60

Leu Leu Ser 65

<210> 2063

<211> 43

<212> PRT

<213> Homo sapiens

<400> 2063

Met Tyr Phe Phe Phe Phe Leu Thr Phe Leu Ala Leu Trp Val Met Gly 1 5 10 15

Thr Thr Ala Met Ala Ser Pro Phe Phe Met Gly Tyr Gln Leu Gln Tyr 20 25 30

Gly Pro Gln Cys Cys Ser Gly His Phe Asn Asp 35 40

<210> 2064

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2064

Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp

1 5 10 15

Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln 20 25 30

Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
35 40 45

Trp Thr Glu Leu His His Cys Leu Arg

<210> 2065

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2065

Met Ile Ile Cys Leu Ile Met Phe Tyr Phe Ile Ala Leu Ala Gly Ala 1 5 10 15 .

His Lys Arg Val Val Ile Gln Leu Arg Glu Gln Leu Ser Leu Glu Ser

Arg Asp Lys Cys Tyr Leu Ile Gln Lys Leu Thr Glu Ala Gln Arg Asp 35 40 45

Met Arg Asn 50

<210> 2066

<211> 366

<212> PRT

<213> Homo sapiens

<400> 2066

Met Ala Cys Leu Lys Thr Gln Arg Ala Pro Lys Ala Phe Leu Leu 1 5 10 15

Pro Leu Leu Tyr Phe Ala Gly Leu Ser Lys Leu Thr Gln Leu Gln 20 25 30

Val Cys Ser Gly Thr Asp Glu Asp Pro Asp Asp Lys Asn Ala Pro Phe 35 40 45

Arg Gln Arg Pro Phe Cys Lys Tyr Lys Gly His Thr Ala Asp Leu Leu 50 55 60

Asp Leu Ser Trp Ser Lys Asn Tyr Phe Leu Leu Ser Ser Ser Met Asp 65 70 75 80

Lys Thr Val Arg Leu Trp His Ile Ser Arg Arg Glu Cys Leu Cys Cys 85 90 95

Phe Gln His Ile Asp Phe Val Thr Ala Ile Ala Phe His Pro Arg Asp 100 105 110

Asp Arg Tyr Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp

Asn Ile Pro Asp Lys Lys Val Ala Leu Trp Asn Glu Val Asp Gly Gln 130 135 140

Thr Lys Leu Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala 145 150 155 160

Val Ile Gly Thr Tyr Asp Gly Arg Cys Ile Phe Tyr Asp Thr Glu His 165 170 175

Leu Lys Tyr His Thr Gln Ile His Val Arg Ser Thr Arg Gly Arg Asn 180 185 190

Lys Val Gly Arg Lys Ile Thr Gly Ile Glu Pro Leu Pro Gly Glu Asn 195 200 . . . 205

Lys Ile Leu Val Thr Ser Asn Asp Ser Arg Ile Arg Leu Tyr Asp Leu 210 215 220

Arg Asp Leu Ser Leu Ser Met Lys Tyr Lys Gly Tyr Val Asn Ser Ser

225 . 230 235 240

Ser Gln Ile Lys Ala Ser Phe Ser His Asp Phe Thr Tyr Leu Val Ser 245 250 255

Gly Ser Glu Asp Lys Tyr Val Tyr Ile Trp Ser Thr Tyr His Asp Leu 260 265 270

Ser Lys Phe Thr Ser Val Arg Arg Asp Arg Asn Asp Phe Trp Glu Gly 275 280 285

Ile Lys Ala His Asn Ala Val Val Thr Ser Ala Ile Phe Ala Pro Asn 290 295 300

Pro Ser Leu Met Leu Ser Leu Asp Val Gln Ser Glu Lys Ser Glu Gly 305 310 315 320

Asn Glu Lys Ser Glu Asp Ala Glu Val Leu Asp Ala Thr Pro Ser Gly 325 330 335

Ile Met Lys Thr Asp Asn Thr Glu Val Leu Leu Ser Ala Asp Phe Thr 340 345 350

Gly Ala Ile Lys Val Phe Val Asn Lys Arg Lys Asn Val Ser 355 360 365

<210> 2067

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2067

Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Trp Ala Ala 1 5 10 15

Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn 20 25 30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser 35 40 45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr 50 55 60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn 65 70 75 80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser 85 90 95

Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe 100 105 110

Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala 115 120 125

Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe 130 135 140

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp 145 150 155 160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val 165 170 175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu 180 185

<210> 2068

<211> 346

<212> PRT

<213> Homo sapiens

<400> 2068

Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala 1 5 10 15

Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu 20 25 30

Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys 35 40 45

Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala 50 55 60

. Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
65 70 75 80

Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu 85 90 95

His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg 100 105 110

Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly 115 120 125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val 130 135 140

Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser 145 150 155 160

Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn 165 170 175

Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly 180 185 190

Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly 195 . 200 205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp. 210 215 220

Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg 225 230 235 240

Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr 245 250 255

Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met 260 265 270

Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala . 275 280 285

Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln 290 · 295 300

Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln 305 310 315 320

Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu 325 330 335

Leu Leu Ala Val Ala Ala Gly Val Leu Leu 340 345

<210> 2069

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2069

Met Arg Leu Ser Arg Ala Ala His Asn Leu Gln Thr Ile Leu Tyr Ser

1 5 10 15

Val Phe Cys Leu Cys Leu His Val Ala Met Met Asp Arg Ser Pro Ser 20 25 30

Ser Ile Leu Ala Leu Trp Arg Ser Gly Ser Cys Ser Val Glu Ile 35 40 45

<210> 2070

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2070

Met Leu Leu His Trp Leu Leu Gln Asn Glu Leu Gln Ser Ala Val Ala

1 5 10 15

Ser Cys Leu Val Ser Ile Ser Leu Gly Lys Glu Asp Phe Leu Gln Thr  $20 \\ \hspace{1.5cm} 25 \\ \hspace{1.5cm} 30$ 

Gly Cys Lys Val Lys Ser His Val Gly Val Ile His Arg Arg Glu Lys 35 40 45

Gly Gly Ala Ile Tyr Leu Pro Asn Ser Leu Val Leu Pro Thr Ser His 50 55 60

Trp Ile Arg Leu Ser Tyr Arg Asn Arg His Arg Gly Phe Ile Leu Trp 65 70 75 80

Thr Leu Met Ser Thr Trp Glu Ala Arg Cys His Gly Pro Cys Val Met 85 90 · 95

Phe Asp Phe Asn Gln Lys

<210> 2071

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2071

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu . 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Val Arg Ala Ser 50 55 60

Cys Pro Gln Leu Arg Leu Gly Arg Val Ala Thr Arg Gly Leu Val Ala 65 70 75 80

Pro Gly Thr Gly Ala Gly Pro Val Trp Gly Val Gly Leu Glu Val Ala 85 90 95

Val Arg Val Leu Glu Lys Pro Arg Pro Pro Pro Pro Ala Pro Pro Arg 100 105 110

Pro Arg Arg Pro Pro Asn Gly Pro Phe Ser Arg Asp Leu Pro Gly Phe
115 120 125

Arg Asp Pro Leu Gly Ala Pro Ser Ala Xaa Leu Val Ala Leu Gly Phe 130 135 140

<210> 2072

<211> 12

<212> PRT

<213> Homo sapiens

<210> 2073

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2073

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
50 55 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 150 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu 165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210> 2074

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2074

Met Leu Ser Ala Ser Ile Trp Leu Val Leu Ile Ile Ser Arg Gly Asn

1 5 10 1!

Ala Arg Gln Lys Val Lys Leu Cys Phe Leu Leu Met Leu Leu Ala Thr 20 25 30

Trp Lys Arg Arg Arg Gly Arg Gly Lys Arg Gly Arg Ser 35 40 45

<210> 2075

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2075

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys 20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro 50 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu 165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210> 2076

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2076

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
50 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu 165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210>. 2077

<211> 587

<212> PRT

<213> Homo sapiens

<400> 2077

Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn Gly Pro Leu
1 5 10 15

Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro Lys Thr Leu 20 25 30

Val Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys Val Arg Pro 35 40 45

Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly Gly Phe Met

	50			•		55					60				
Ser 65	Asn	Arg	Phe	Val	Glu 70	Thr	Asn	Leu	Phe	Leu 75	Glu	Glu	Ile	Gln	Ile 80
Lys	Glu	Pro	Ala	Glu 85	Lys	Gln	Lys	Phe	Phe 90	Gln	Glu	Leu	Ser	Lys 95	Ser
Leụ	Asp	Ala	Phe 100	Pro	Glu	Asp	Phe	Cys 105		His	Lys	Val	Leu 110	Pro	Gln
Leu	Leu	Thr 115	Ala	Phe	Glu	Phe	Gly 120	Asn	Ala	Gly	Ala	Val 125	Val	Leu	Thr
Pro	Leu 130	Phe	Lys	Val	Gly	Lys 135	Phe	Leu	Ser	Ala	Glu 140	Glu	Tyr	Gln	Gln
Lys 145	Ile	Ile	Pro	Val	Val 150	Val	Lys	Met	Phe	Ser 155	Ser	Thr	Asp	Arg	Ala 160
Met	Arg	Ile	Arg	Leu 165	Leu	Gln	Gln	Met	Glu 170	Gln	Phe	Ile	Gln	Tyr 175	Leu
Asp	Glu	Pro	Thr 180	Val	Asn	Thr	Gln	Ile 185	Phe	Pro	His	Val	Val 190	His	Gly
Phe	Leu	Asp 195	Thr	Asn	Pro	Ala	Ile 200	Arg	Glu	Gln	Thr	Val 205	Lys	Ser	Met
Leu	Leu 210	Leu	Ala	Pro	Lys	Leu 215	Asn	Glu	Ala	Asn	Leu 220	Asn	Val	Glu	Leu
Met 225	Lys	His	Phe	Ala	Arg 230	Leu	Gln	Ala	Lys	Asp 235		Gln	Gly	Pro	Ile 240
Arg	Cys	Asn	Thr	Thr 245	Val	Cys	Leu	Gly	Lys 250	Ile	Gly	Ser	Tyr	Leu 255	Ser
			260	٠				265					270	Ala	
Arg	Asp	Pro 275		Ala	Pro	Ser	Arg 280		Ala	Gly	Val	Leu 285	Gly	Phe	Ala
Ala	Thr 290		Asn	Leu	Tyr	Ser 295		Asn	Asp	Cys	Ala 300	Gln	Lys	Ile	Leu
305					310					315				Arg	320
				325	٠				330	)				335	
			340	)				345	i				350		
		355	;				360	)				365	5	ı Gly	
Ala	Val	. Thr	Gly	v Val	. Ser	Ser	Lev		: Ser 1361	Lys	s Lev	ı Ile	Arç	, Ser	His

375 380 370 Pro Thr Thr Ala Pro Thr Glu Thr Asn Ile Pro Gln Arg Pro Thr Pro 390 395 Glu Gly His Trp Glu Thr Gln Glu Glu Asp Lys Asp Thr Ala Glu Asp 410 Ser Ser Thr Ala Asp Arg Trp Asp Asp Glu Asp Trp Gly Ser Leu Glu Gln Glu Ala Glu Ser Val Leu Ala Gln Gln Asp Asp Trp Ser Thr Gly Gly Gln Val Ser Arg Ala Ser Gln Val Ser Asn Ser Asp His Lys Ser Ser Lys Ser Pro Glu Ser Asp Trp Ser Ser Trp Glu Ala Glu Gly Ser 475 Trp Glu Gln Gly Trp Gln Glu Pro Ser Ser Gln Glu Pro Pro Pro Asp 490 Gly Thr Arg Leu Ala Ser Glu Tyr Asn Trp Gly Gly Pro Glu Ser Ser 505 Asp Lys Gly Asp Pro Phe Ala Thr Leu Ser Ala Arg Pro Ser Thr Gln 520 Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu Gly Leu Glu Thr 535 Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys Lys Arg Glu Glu 555 . 550 Arg Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg Lys Val Ala Lys .565

Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp 580

<210> 2078 <211> 124 <212> PRT <213> Homo sapiens

Met Arg Gln Val Ala Pro Ala Arg Arg Ala Gln Leu Glu His Ser Gly

Leu His Ala Ser Leu Cys Leu Leu Ser Leu Leu Ser Leu Leu Pro Thr 25

Leu Glu Ala Asn Met Ser Gly Phe His Gln Ala Pro Leu Thr Leu Leu

Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln 50

Pro Ser Phe Trp Arg Thr Glu Met Lys Cys Pro Val Glu Ala Leu Leu 65 70 75 80

Glu His Leu Ala Thr Arg Ala Val Val Gly Arg Asn Gly Asp His Gly 85 90 95

Ala Gln Gln Glu His Arg Thr Ala Ser Glu Gly Gln Gln Gln Pro Leu 100 105 110

Ala Glu Ser Ser Pro Trp Trp Gln Pro Pro His Gly
115 120

<210> 2079

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2079

Met Ala Leu Phe Ala Trp Leu Cys Leu Ser Ala Val Val Glu Ser Ser 1 5 10 15

Ser Pro Gly Met Cys Met Ser Lys Cys Val Leu Ile Val Met Pro Arg 20 25 30

Gln Lys Pro Leu Glu Asp Cys Cys Arg His Ala Leu Lys Met Thr Ser 35 40 45

His Ser Ser Glu Lys Leu Gly Asp Leu Thr Pro Glu Gly Leu Lys Ser 50 55 60

Glu Lys Ser Gln Glu His Leu Gly Phe Lys 65 70

<210> 2080

<211> 76

<212> PRT

<213> Homo sapiens

<400> 2080

Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser 20 25 30

Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe 35 40 45

Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys 50 55 60

Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe 65 70 75

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<210> 2081
 <211> 146
 <212> PRT
 <213> Homo sapiens
 <400> 2081
 Met Ala Ala Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
                  5 ·
                                     10
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala
                                 25
 Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu
                                                45
                            40
 Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr
                         55
 Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln
                                        75 ·
                     70
 Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys-Gly Ser Gly
                 85
 Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro
                                105
             100
 Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Ala Arg Ala
                            120 ' 125
 Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys
                        135 140
     130
 Pro Pro
. 145
 <210> 2082
  <211> 30
  <212> PRT
  <213> Homo sapiens
  <220>
  <221> SITE
  <222> (28)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <400> 2082
  Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
  Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln
```

<210> 2083 <211> 56

. 20

25

30

<212> PRT

<213> Homo sapiens

<400> 2083

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met

1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser 20 25 30

Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr 35 40 45

Gln Val Lys Met Asn Val Ser Gln 50 55

<210> 2084'

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2084

Met Gly Ser Leu Ser Asn Tyr Ala Leu Leu Gln Leu Thr Leu Thr Ala 1 5 10 15

Phe Leu Thr Ile Leu Val Gln Pro Gln His Leu Leu Ala Pro Val Phe 20 25 30

Arg Thr Leu Ser Ile Leu Thr Asn Gln Ser Asn Cys Trp Leu Cys Glu 35 40 45

His Leu Asp Asn Ala Glu Gln Pro Glu Leu Val Phe Val Pro Ala Ser

Ala Ser Thr Trp Trp Thr Tyr Ser Gly Gln Trp Met Tyr Glu Arg Val 65 70 75 80

Trp Tyr Pro Gln Ala Glu Val Gln Asn His Ser Thr Ser Ser Tyr Arg 85 90 95

Lys Val Thr Trp His Trp Glu Ala Ser Met Glu Ala Gln Gly Leu Ser 100 105 110

Phe Ala Gln Val Arg Leu Leu Glu Gly Asn Phe Ser Leu Cys Val Glu 115 120 125

Asn Lys Asn Gly Ser Gly Pro Phe Leu Gly Asn Ile Pro Lys Gln Tyr 130 135 140

Cys Asn Gln Ile Leu Trp Phe Asp Ser Thr Asp Gly Thr Phe Met Pro 145 150 150 160

Ser Ile Asp Val Thr Asn Glu Ser Arg Asn Asp Asp Asp Pro Ser 165 170 175

Val Cys Leu Gly Thr Arg Gln Cys Ser Trp Phe Ala Gly Cys Thr Asn 180 185 190

Arg Thr Trp Asn Ser Ser Ala Val Pro Leu Ile Gly Leu Pro Asn Thr Gln Asp Tyr Lys Trp Val Asp Arg Asn Ser Gly Leu Thr Trp Ser Gly 215 Asn Asp Thr Cys Leu Tyr Ser Cys Gln Asn Gln Thr Lys Gly Leu Leu 230 Tyr Gln Leu Phe Arg Asn Leu Phe Cys Ser Tyr Gly Leu Thr Glu Ala His Gly Lys Trp Arg Cys Ala Asp Ala Ser Ile Thr Asn Asp Lys Gly His Asp Gly His Arg Thr Pro Thr Trp Trp Leu Thr Gly Ser Asn Leu 280 Thr Leu Ser Val Asn Asn Ser Gly Leu Phe Phe Leu Cys Gly Asn Gly Val Tyr Lys Gly Phe Pro Pro Lys Trp Ser Gly Arg Cys Gly Leu Gly 315 Tyr Leu Val Pro Ser Leu Thr Arg Tyr Leu Thr Leu Asn Ala Ser Gln 330 Ile Thr Asn Leu Arg Ser Phe Ile His Lys Val Thr Pro His Arg Cys 345 340 Thr Gln Gly Asp Thr Asp Asn Pro Pro Leu Tyr Cys Asn Pro Lys Asp 360 Asn Ser Thr Ile Arg Ala Leu Phe Pro Ser Leu Gly Thr Tyr Asp Leu 375 Glu Lys Ala Ile Leu Asn Ile Ser Lys Ala Met Glu Gln Glu Phe Ser 390 Ala Thr Lys Gln Thr Leu Glu Ala His Gln Ser Lys Val Ser Ser Leu 405 Ala Ser Ala Ser Arg Lys Asp His Val Leu Asp Ile Pro Thr Thr Gln Arg Gln Thr Ala Cys Gly Thr Val Gly Lys Gln Cys Cys Leu Tyr Ile Asn Tyr Ser Glu Glu Ile Lys Ser Asn Ile Gln Arg Leu His Glu Ala 455 Ser Glu Asn Leu Lys Asn Val Pro Leu Leu Asp Trp Gln Gly Ile Phe 470 Ala Lys Val Gly Asp Trp Phe Arg Ser Trp Gly Tyr Val Leu Leu Ile 490 485 Val Leu Phe Cys Leu Phe Ile Phe Val Leu Ile Tyr Val Arg Val Phe 500 . 505

Arg Lys Ser Arg Arg Ser Leu Asn Ser Gln Pro Leu Asn Leu Ala Leu 515 520 525

Ser Pro Gln Gln Ser Ala Gln Leu Leu Val Ser Glu Thr Ser Cys Gln 530 535 540

Val Ser Asn Arg Ala Met Lys Gly Leu Thr Thr His Gln Tyr Asp Thr 545 550 555 560

Ser Leu Leu

<210> 2085

<211> 599

<212> PRT

<213> Homo sapiens

<400> 2085

Met Glu Leu Leu Gly Pro Val Pro Pro Glu Gln Gln Phe Ile Asn Gln
1 5 10 15

Lys Met Arg Pro Gly Ser Gly Met Leu Ser Ile Arg Val Ile Pro Asp 20 25 30

Gly Pro Thr Arg Ala Leu Gln Ile Thr Asp Phe Cys His Arg Lys Ser

Ser Arg Ser Tyr Glu Val Asp Glu Leu Pro Val Thr Glu Gln Glu Leu 50 55 60

Gln Lys Leu Lys Asn Pro Asp Thr Glu Gln Glu Leu Glu Val Leu Val
65 70 75 80

Arg Leu Glu Gly Gly Ile Gly Leu Ser Leu Ile Asn Lys Val Pro Glu 85 90 95

Glu Leu Val Phe Ala Ser Leu Thr Gly Ile Asn Val His Tyr Thr Gln
100 105 110

Leu Ala Thr Ser His Met Leu Glu Leu Ser Ile Gln Asp Val Gln Val 115 120 125

Asp Asn Gln Leu Ile Gly Thr Thr Gln Pro Phe Met Leu Tyr Val Thr 130 135 140

Pro Leu Ser Asn Glu Asn Glu Val Ile Glu Thr Gly Pro Ala Val Gln 145 150 155 160

Val Asn Ala Val Lys Phe Pro Ser Lys Ser Ala Leu Thr Asn Ile Tyr 165 170 175

Lys His Leu Met Ile Thr Ala Gln Arg Phe Thr Val Gln Ile Glu Glu 180 185 190

Lys Leu Leu Lys Leu Leu Ser Phe Phe Gly Tyr Asp Gln Ala Glu 195 200 205

Ser Glu Val Glu Lys Tyr Asp Glu Asn Leu His Glu Lys Thr Ala Glu

	210		•			215					220				
Gln 225	Gly	Gly	Thr	Pro	Ile 230	Arg	Tyr	Tyr	Phe	Glu · 235	Asn	Leu	Lys	Ile	Ser 240
Ile	Pro	Gln	Ile	Lys 245	Leu	Ser	Va1	Phe	Thr 250	Ser	Asn	Lys	Leu	Pro 255	Leu
Asp	Leu	Lys	Ala 260	Leu	Lys	Ser	Thr	Leu 265	Gly	Phe	Pro	Leu	Ile 270	Arg.	Phe
Glu	Asp	Ala 275	Val	Ile	Asn	Leu	Asp 280	Pro	Phe	Thr	Arg	Val 285	His	Pro	Tyr
Glu	Thr 290	Lys ·	Glu	Phe	Ile	Ile 295	Asn	Asp	Ile	Leu	Lys 300	His	Phe	Gln	Glu
Glu 305	Leu	Leu	Ser	Gln	Ala 310	Ala	Arg	Ile	Leu	Gly 315	Ser	Val	Asp	Phe	Leu 320
Gly	Asn	Pro	Met	Gly 325	Leu	Leu	Asn	Asp	Val 330	Ser	Glu	Gly	Val	Thr 335	Gly
			340					345		<b></b> .			350	Thr	
	,	355					360				•	365		Asp	
	370					375					380			Tyr	
385					390			• .		395	•	•		Ile	400
٠.				405					410					Thr 415	
			420	)				425					430		•
		435	i	•			440	)	•			445	•	Ala	
	. 450					455	5				46	)		Thr	
465	;				470	)				475	5			Pro	481
Сув	суз	; Thr	: Gl	/ Pro 485		ı Gly	/ Lev	ı Leı	1 Pro 490	) )	Ty:	r Sei	c Glu	1 Ser 495	Gl:
Ala	a Glu	ı Gly	7 Glr 500	_	ı Glr	ı Let	ı Phe	505		ı Thi	r Asj	o Ası	n Ile 510	e Glr	ı Ası
		515	5				. 520	0				52	5	l Leu	
Sea	Sei	c Ly:	s Ala	a Va	l Ty	r Ph	e Le	ı Ly:			y As	р Ту	r Va	l Asp	) Ar
				•					1368	•				ι.	

540 535 530

Glu Ala Ile Phe Leu Glu Val Lys Tyr Asp Asp Leu Leu Pro Leu Pro 555 550

Cys Leu Gln Arg Pro Trp Glu Gly Val Cys Ala Gly Asp Gln Glu Ser 570

Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu 585

Ala His Gly Pro Cys Glu Ile 595

<210> 2086

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2086

Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu

Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp 20

Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg

Leu Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys

Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro

Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn 90

Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala 105

Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp 120

Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn 140 135

Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr 150 145

Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro 170

Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro 185 180

Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys 205 200

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Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro 220 215

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys 235

<210> 2087

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2087

Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp

Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val

Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala 40

Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu 55

Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr 70 65

Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu 85

Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile 100

Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu 120 115

<210> 2088

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2088

Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg Leu 5

Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val 25

Pro Leu Pro Pro Cys Gln Glu Gln Pro Lys Ala Ser Ala Glu Leu

Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly

Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu

65 70 75 80

Gln Leu Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg 85 90 95

Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr 100 105 110

Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln 115 120 125

Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile 130 135

<210> 2089

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2089

Met Glu Ile Tyr Leu Ser Leu Gly Val Leu Ala Leu Gly Thr Leu Ser 1 5 15

Leu Leu Ala Val Thr Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp
20 25 30

Arg Glu Phe Ser Phe Val Gln Ser Ser Leu Gly Phe Val Ala Leu Val 35 40 45

Leu Ser Thr Leu His Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu 50 55 60

Glu Ser Arg Tyr Lys Phe Tyr Leu Pro Pro Thr Phe Thr Leu Thr Leu 65 70 75 80

Leu Val Pro Cys Val Val Ile Leu Ala Lys Ala Leu Phe Leu Leu Pro 85 90 95

Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg Arg Gly Trp Glu Arg Glu 100 105 110

Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp His Ala Leu Ala Glu Lys 115 120 125

Thr Ser His. Val

<210> 2090

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (109) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (116) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2090 Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu 25 Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly 55 Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val 85 Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys 105 Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp 120 <210> 2091 <211> 89 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (87) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2091 Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly

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Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr 70 65 ·

Ser Leu Tyr Ile Trp Thr Xaa Gly Gly

<210> 2092

<211> 90

<212> PRT

<213> Homo sapiens

<400> 2092

Met Asp Trp Ala Val Leu Thr Val Val Leu Gly Pro Cys Val Pro Gly 5

Leu Ser Gly Ser Pro Pro Trp Pro Leu Pro Ser Ser His Leu Leu Glu 25

Ala Lys Leu Cys Glu Thr Trp His Ser Phe Gln Thr Ser Val Pro Pro

Arg Pro Cys Ala Gly Val Thr Pro Glu Leu Arg Met Ser Ala Arg Ser

Arg Gln Tyr Arg Glu Gly Thr Gln Arg Lys Ala Ser Gln Leu Ser Lys 70 65

Asp Arg Asp Arg Leu Trp Ser Gly Arg Ala 85

<210> 2093

<211> 110

<212> PRT-

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2093

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu 10

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Cys Gly Ala Ala 25

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly 40 35

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser 50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val 65 70 . 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Val Leu His Arg Phe Leu 85 90 95

Arg Xaa Gly Xaa Gly Leu Leu Gly Ser Trp Thr Gly Leu Glu 100 105 110

<210> 2094

<211> 374

<212> PRT

<213> Homo sapiens

<400> 2094

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu 1 5 10 15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala 20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly 35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser 50 55 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val 65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala 85 90 95

Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly

Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala 115 120 125

Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly 130 135 140

Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly 145 150 150

Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala 165 170 175

Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu 180 185 190

Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His
195 200 205

Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg

210 215 220

Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His 225 230 235 240

Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His 245 250 255

Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu 260 265 270

Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly 275 280 285

Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp 290 295 300

Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly 305 310 315 320

Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys 325 330 335

His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn 340 345 350

Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp 355 360 365

Arg Leu Pro Thr Met Asp 370

<210> 2095

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2095

Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser

1 10 15

Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys 20 25 30

Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile 35 40

Asn Arg Thr Ala Asn 50

<210> 2096

<211> 215

<212> PRT

'<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2096

Met Leu Pro Trp Thr Ala Xaa Gly Leu Ala Leu Ser Leu Arg Leu Ala 1 5 10 15

Leu Ala Arg Ser Gly Ala Glu Arg Gly Pro Pro Ala Ser Ala Pro Arg 20 . 25 30

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr 35 40 45

Glu Phe Ser Arg Val Arg Glu Phe Val Gly Gln Leu Val Ala Pro Leu 50 55 60

Pro Leu Gly Thr Gly Ala Leu Arg Ala Ser Leu Val His Val Gly Ser
65 70 75 80

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala 85 90 95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His 100 105 110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala 115 120 125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp 130 135 140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp 145 150 155 160

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu 165 170 175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe 180 185 190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser 195 200 205

Ile Leu Asp Ala Met Arg Pro 210 215

<210> 2097

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2097

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro 1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe 20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro

- Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His 50 55 60
- Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly 65 70 75 80
- Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser 85 90 95
- Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
- Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg 115 120 125

<210> 2098

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2098

- Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro 1 5 10 15
- Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe 20 25 30
- Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
- Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His 50 55 60
- Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly 65 70 75 80
- Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser 85 90 95
- Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val 100 105 110
- Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
  115 120 125
- Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu 130 135 140
- Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly 145 150 150
- Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro 165 170 175 .

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp 180 185

<210> 2099

<211> 72

<212> PRT

<213> Homo sapiens

<400> 2099

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe 1 5 10 15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala 20 25 30

Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys 35 40 45

Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro 50 60

Val Leu Arg Tyr Ala Ser Ile Glu 65 70

<210> 2100

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2100

Met Ala Tyr Leu Thr Leu Phe Gln Met Gly Ser Trp Met Ser Phe Ser

1 5 10 15

Leu Ser Leu Cys Ser Leu Leu Phe Ile Leu Thr Gly His Cys Leu Ser 20 25 30

Glu Asn Phe Tyr Val Arg Gly Asp Gly Thr Arg Ala Tyr Phe Phe Thr 35 40 45

Lys Gly Glu Val His Ser Met Phe Cys Lys Ala Ser Leu Asp Glu Lys 50 55 60

Gln Asn Leu Val Asp Arg Arg Leu Gln Val Asn Arg Lys Lys Gln Val 65 70 75 80

Lys Met His Arg Val Trp Ile Gln Gly Lys Phe Gln Lys Pro Leu His 85 90 95

Gln Thr Gln Asn Ser Ser Asn Met Val Ser Thr Leu Leu Ser Gln Asp 100 105 110

<210> 2101

<211> 80

<212> PRT

<213> Homo sapiens

<400> 2101

Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val 1 5 10 15

Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe 20 25 30

Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg
35 40 45

Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu 50 55. 60

Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe 65 70 75 80

<210> 2102

<211> 49

<212> PRT

<213> Homo sapiens

<400> 2102

Met Gin Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu

1 5 10 15

Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys 20 25 30

Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser 35 40 45

Ile

<210> 2103

<211> 179.

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103

Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu

1 5 10 15

Leu Leu Val Met Ala Phe Ser Lys Lys Trp Leu Asp Leu Ser Arg Ser 20 25 30

Leu Phe Tyr Gln Arg Trp Pro Val Asp Val Ser Asn Arg Ile His Thr 35 40 45

Ser Ala His Val Met Ser Met Gly Leu Leu His Phe Cys Lys Ser Arg
50 55 60

Ser Cys Ser Asp Leu Glu Asn Gly Lys Val Thr Phe Ile Phe Ser Thr 65 70 75 80

Leu Met Leu Phe Pro Ile Asn Ile Trp Ile Phe Glu Leu Glu Arg Asn 85 90 95

Val Ser Ile Pro Ile Gly Trp Ser Tyr Phe Ile Gly Trp Leu Val Leu 100 105 110

Ile Leu Tyr Phe Thr Cys Ala Ile Leu Cys Tyr Phe Asn His Lys Ser 115 120 125

Phe Trp Ser Leu Ile Leu Ser His Pro Ser Gly Ala Val Ser Xaa Ser 130 135 140

Ser Ser Phe Gly Ser Val Glu Glu Ser Pro Arg Ala Gln Thr Ile Thr 145 150 150 160

Asp Thr Pro Ile Thr Gln Glu Gly Val Leu Asp Pro Glu Gln Lys Asp 165 170 . 175

Thr His Val

<210> 2104

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2104

Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro 1 5 10 15

Ile Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro 20 25 30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln 35 40 45

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp 50 55 60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
65 70 75 80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu 85 90 95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro

100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His 115 120

<210> 2105

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2105

Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro 1 5 10 15

Ile Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro 20 25 30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
35 40 45

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp 50 55 60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr 65 70 75 80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu 85 90 95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro 100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His 115 120

<210> 2106

<211> 459

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106

Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu 1 5 10 15

Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly 20 25 30

Arg	Arg	Asn 35	Trp	Cys	Ser '	Tyr	Val 40	Val	Thr	Arg	Thr	11e 45	Ser	Cys	His
Val	Gln 50	Asn	Gly	Thr	Tyr	Leu 55	Gln	Arg	Val	Leu	Gln 60	Asn	Cys	Pro	Trp
Pro 65	Met	Ser	Cys	Pro	Gly 70	Ser	Ser	Tyr	Arg	Thr 75	Val	Val	Arg	Pro	Thr 80
Tyr	ГÀЗ	Val	Met	Tyr 85	Lys	Ile	Val	Thr	Ala 90	Arg	Glu	Trp	Arg	Cys 95	Суз
Pro	Gly	His	Ser 100	Gly	Val	Ser	Cys	Glu 105	Glu	Val	Ala	Ala	Ser 110	Ser	Ala
Ser	Leu	Glu 115	Pro	Met	Trp	Ser	Gly 120	Ser	Thr	Met	Arg	Arg 125	Met	Ala	Leu
Arg	Pro 130	Thr	Ala	Phe	Ser	Gly 135	Суз	Leu	Asn	Сув	Ser 140	Lys	Val	Ser	Glu
Leu 145		Glu	Arg	Leu	Lys 150	Val	Leu	Glu	Ala	Lys 155	Met	Thr	Met	Leu	Thr 160
Va1	Ile	Glu	Gln	Pro 165	Val	Pro	Pro	Thr	Pro 170	Ala	Thr	Pro	Glu	Asp 175	Pro
Ala	Pro	Leu	Trp 180	Gly	Pro	Pro	Pro	Ala 185	Gln	Gly	Ser	Pro	Gly 190	Asp	Gly
Gly	Leu	Gln 195	Asp	Gln	Val	Gly	A1a 200	Trp	Gly	Leu	Pro	Gly 205	Pro	Thr	Gly
Pro	Lys 210		Asp	Ala	Gly	Ser 215	Arg	Gly	Pro	Met	Gly 220	Met	Arg	Gly	Pro
Pro 225		Pro	Gln	Gly	Pro 230	Pro	Gly	Ser	Pro	Gly 235	Arg	Ala	Gly	Ala	Val- 240
Gly	Thr	Pro	Gly	Glu 245		Gly	Pro	Pro	Gly 250	Pro	Pro	Gly	Pro	Pro 255	Gly
Pro	Pro	Gly	Pro 260		Ala	Pro	Val	Gly 265	Pro	Pro	His	Ala	Arg 270	Ile	Ser
Gln	His	Gly 275		Pro	Leu	Leu	Ser 280		Thr	Phe	Thr	Glu 285	Thr	Asn	. Asn
His	Trp 290		Gln	Gly	Pro	Thr 295		Pro	Pro	Gly	7 Pro 300	Pro	Gly	Pro	Met
Gly 305		Pro	Gly	Pro	9ro 310		Pro	Thr	Gly	7 Val 315	. Pro	Gly	ser Ser	Pro	Gly 320
Xaa	ī Ile	e Gly	y Pro	Pro 325		Pro	Thr	: Gly	7 Pro 330	Lys )	Gly	r Ile	e Ser	Gly 335	His
Pro	Gly	/ Glu	1 Lys 340		/ Glu	Lys	Lys	345		ı Arg	g Gly	g Glu	350	Gly	y Pro

Gln Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro 355 360 365

- Gly Glu Lys Ser His Trp Asn Gln Ser Trp Gly Leu Gly Gly Pro Cys 370 375 380
- Arg His Arg His Pro Gln Pro Pro Ser Gly Gln Glu Gly Gly His Ala 385 390 395 400
- Thr Asn Tyr Arg Asp Arg Gly Pro Gln Glu Pro Gly Arg Glu Arg Leu 405 410 415
- Arg Val Val Ala Ala Pro Glu Ala Asp Gln Ala Arg Leu Pro Leu Leu 420 425 430
- Pro Gly Leu Gly Gln Leu Pro Pro Gly Thr Ala Arg Pro Tyr Leu Leu 435 440 445
- Met Ser Ser Gly Ser Leu Leu Pro Ser Arg Pro 450 455

<210> 2107

<211> 615

<212> PRT

<213> Homo sapiens

<400> 2107

- Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe
  1 5 10 15
- Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu 20 25 30
- Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn 35 40 45
- Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn 50 . 55 60
- Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly 65 70 75 80
- Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
  85 90 95
- Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg 100 105 110
- Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
- Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val 130 135 140
- Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val 145 150 155 160

His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala 170 165 Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro 185 . Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile 200 Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu 215 Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val 230 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu 245 Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu 265 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Ile 280 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu 310 305 Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala 330 Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His 360 Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg 410 405 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly 425 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr 440 435 Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu 455 Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu

470

PCT/US01/11988 WO 01/77137

Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro 490

Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu 505

Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly 520

Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser 540 535

Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val 555

Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe 570

Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro 585

Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro 600 595

Leu Pro Ile Trp Thr Pro Ala 615

<210> 2108

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

· <222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (126)
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<220>
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<222> (175)
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<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE .
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 2108
 Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
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Lys Val Leu Gln Ala Arg Lys Asn Kaa Thr Ser Thr Glu Leu Ile Val Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu 105 Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val 120 Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn 155 150 Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu 170 165 Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa 1.85 Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val 200 Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys 215 Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile 235 230 225 Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser 250 Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe 280 Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro . 295 · Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe - 310 Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Kaa Val 325 Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr 345 340

Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn 355 360 365

Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro 370 380

Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys 385 390 395 400

Gln Thr Glu Thr

<210> 2109

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2109

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser 1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser 35 40 45

<210> 2110

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2110

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser

1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser 35 40 45

<210> 2111 ·

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2111

Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala Ser 1 5 10 15

Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu Ile 20 25 30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly Ile Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr Ser Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn Gly Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val Ser 105 Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly Tyr Glu Val Gln Ile Cys Arg. Tyr Lys Asp Tyr Arg Glu Pro Pro Trp Ser 140 135 Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala Ala 155 Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met Ser Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser Gln 185 Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg Glu 200 Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu Arg 215 Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys Pro 230 Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly Val 250 245 Leu

<210> 2112

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2112

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly 1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val

Arg Arg

<210> 2113

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2113

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val

Arg Arg 50

<210> 2114

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2114

Met Val Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro

1 5 10 15

Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile 20 25 .30

Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala . 35 40 45

Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu 50 55 60

Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser 65

<210> 2115

<211> 94

<212> PRT

<213> Homo sapiens

<400> 2115

Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu 1 5 10 15 ...

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Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly 25

Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Pro Ala Thr Arg Cys 40

Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu

Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly

Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly

<210> 2116

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2116

Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe

Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys

Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile

Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met

Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro

Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn 90

Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu 105

Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys 120

Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu 135

Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro 155 150

Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu 170 165

Asp Gln Thr Ser 180

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<210> 2117

<211> 80

<212> PRT

<213> Homo sapiens

<400> 2117

Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu 1 5 10 15

Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe 20 25 30

Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp 35 . 40 45

His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala 50 55 60

Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly 65 70 75 80

<210> 2118

<211> 21

<212> PRT

<213> Homo sapiens

<400> 2118

Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val 1 5 10 15

Lys Ala Gly Met Leu

<210> 2119

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2119

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys 35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val

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65

. 75

70 Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 90 Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 105 . Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 120 Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 135 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 155 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 185 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 200 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 215 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met 230 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile 250 245 Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val 260 Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val 285 280 Leu Phe Phe 290 <210> 2120 <211> 257 <212> PRT <213> Homo sapiens <400> 2120 Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 10 Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile . 20 Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys

40

35

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val 65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp'Ile Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 135 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 150 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln 245 250 255

Ser

<210> 2121

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2121

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile

1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly 50 55 60 Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val

Leu Arg Glu Gly Arg Ash Ala Leu lie Ala Ala Gly III Gly 110 val 65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 135 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln 245 255

Ser

<210> 2122

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (284)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2122

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

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Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 90. Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 105 Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 140 Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 155 150 Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 185 Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 200 Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 215 Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 230 Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr 250 245 Phe Trp Pro Thr Pro Lys Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu 260 Pro Ile Leu Ile His Leu Cys Ile Trp Val Leu Xaa Ala Ala Val Asp 280 Tyr Leu Leu Tyr Arg Leu Ile Phe Ser Val Ser Lys Gln Phe Gln Ser Leu Pro Gly Phe Glu Val His Leu Lys Leu His Gly Glu Lys Gln Gly 315 310 Thr Gln Asp Ile Ile His Asp Ser Ser Phe Asn Ile Ser Val Phe Glu

Pro Asn Cys Ile Pro Lys Pro Trp Gln Ala Leu Lys Leu Leu Ala His 345

325

340

<212	> 25 > PR	T	apie	ns											
<400 Met 1	> 21 Val	.23 Ser	Cys	Ser 5	Ile	Leu	Ala	Leu '	Thr 10	His	Leu :	Leu	Phe	Glu 15	Phe
Lys	Gly	Leu	Met 20	Gly	Thr	Ser	Thr	Val 25	Glu	Gln	Leu	Leu	Glu 30	Asn	Val
Cys	Leu	Leu 35	Leu	Ala	Ser	Arg	Thr 40	Arg	Asp	Val	Val	Lys 45	Ser	Ala	Leu
Gly	Phe 50	Ile	Lys	Val	Ala	Val 55	Thr	Val	Met	Asp	Val 60	Ala	His	Leu	Ala
Lys 65	His	Val	Gln	Leu	Val 70	Met	Glu	Ala	Ile	Gly 75	Lys	Leu	Ser	Asp	Asp 80
Met	Arg	Àrg	His	Phe 85	Arg	Met	Lys	Leu	Arg 90	Asn	Leu	Phe	Thr	Lys 95	Phe
Ile	Arg	Lys	Phe 100	Gly	Phe	Glu	Leu	Val 105	Lys	Arg	Leu	Leu	Pro 110	Glu	Glu
Tyr	His	Arg 115		Leu	Val	Asn	Ile 120	Arg	Lys	Ala	Glu	Ala 125	Arg	Ala	Lys
Arg	His 130		Ala	Leu	Ser	Gln 135	Ala	Ala	Val	Glu	Glu 140	Glu	Glu	Glu	Glu
Glu 145		Glu	Glu	Glu	Pro 150	Ala	Gln	Gly	Lys	Gly 155	Asp	Ser	Ile	Glu	Glu 160
Ile	Leu	Ala	Asp	Ser 165		Asp	Glu	Glu	Asp 170	Asn	Glu	Glu	Glu	Glu 175	Arg
Ser	Arg	g Gly	Lys 180		Gln	Arg	Lys	Leu 185	Ala	Arg	Gln	Arg	Ser 190	Arg	Ala
Trp	Leu	Lys 195		ı Gly	Gly	· Gly	Asp 200	Glu	. Pro	Leu	Asn	Phe 205	Leu	Asp	Pro
Lys	val 210		a Glr	ı Arg	y Val	Leu 215	Ala	Thr	Gln	Pro	Gly 220	Pro	Ala	Gly	Gln
Gl: 225		ı Gly	y Pro	o Glr	1 Leu 230		a Gly	Glu	. Arg	235	Trp	Pro	Ala	a Asp	His 240
Ly	s Gly	y Gly	y Gly	y Arg 245		g Glr	ı Glr	a Asp	G1 <sub>3</sub> 250	y Gly )	Arg	r Gly	Arg	255 255	Gln

Arg Arg Arg

<210> 2124

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2124

Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser

Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly 25

Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe 40 . 35

<210> 2125

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2125

Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe 10

Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser

Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His 40 .

<210> 2126

<211> 54

<212> PRT

<213> Homo sapiens

<400> 2126

Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln . 10

Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro 25

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met 40

Arg Val Cys Ala Arg Val. 50

<211> 136

<212> PRT .

<213> Homo sapiens

<400> 2127

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp 20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu 35 40 45

Gly Val Leu Leu Leu Gly Glu Cys Thr Gly Ser Gly Arg Glu Trp 50 55 60

Ala Gly Ser Leu Asp Gln Ser Asn Gln Ala Arg Arg Lys Gly Asn Gly 65 70 75 80

Gly His Val Arg Glu Gly Val Glu Ser Arg Val Trp Gln Val Thr Gly 85 90 95

Ser Cys Pro Tyr Ser Val Tyr Ser Thr Gly Ser Arg Pro His Val Leu 100 105 110

Arg His Trp Glu Ala Ala Ser Gln Ala Pro Ala Ala Gly Arg Pro Gly 115 120 125

Gly Ala Ala Val Leu Leu Ser Leu 130 135

<210> 2128

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2128

Met His Trp Thr Phe Ser Ser Ser Leu Gly Cys Leu Tyr His Phe Ser

Leu Ser Phe Ser Gly Leu His Thr Val Leu Lys Ser Ser Pro Ser Ser 20 25 30

Arg Phe Leu Leu Pro Cys Ser Ser Gln Val Thr Gln Pro Ser Pro Val

Gly Gln Pro Arg Leu Val Val Gln Leu Pro Pro Val Lys Val Ile Gly 50 55 60

His Arg Thr Gly Gln Cys Arg Gly Pro Gly 65 70

<210> 2129

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2129

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser

1 5 10 15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
20 25 30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys 35 40 45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr 50 55 60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg 65 70 75 80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg 85 90 95

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
100 105 . 110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
115 120 125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro 130 135 140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys 145 150 155 160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu 165 170 175

His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val 180 185 190

Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val 195 200 205

Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro 210 215 220

Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn 225 230 235 240

Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala 245 250

<210> 2130

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2130

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser

10 1 Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp 25 Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr 105 - Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly 120 -Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro 135 Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val 200 Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro 215 Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn 235 Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala 245

<210> 2131 <211> 57 <212> PRT

<213> Homo sapiens

<400> 2131
Met Phe Phe Gln Gly Trp Val Asp Arg Trp Leu Leu Gly Cys Leu Ala
1 5 10 15

Pro Gly Gly Phe Ala Ile His Glu Ala Arg Ala Gly Asn Thr Val Ser 20 25 30

```
Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Val
             40
Leu Glu Met Ile Ser Ala Thr Ile Leu
<210> 2132
<211> 41
<212> PRT
<213> Homo sapiens
 <400> 2132
Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
                               25 .
 Ile Phe Ile Gly Pro Glu Gln Phe Leu
   35
 <210> 2133
<211> 51
 <212> PRT
 <213> Homo sapiens
 <400> 2133
 Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro
                                   10
 Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu
                . 25
             20
 Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln
                            40
         35
 Arg Gly Thr
     50
 <210> 2134
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (42)
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<223> Xaa equals any of the naturally occurring L-amino acids

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WO 01/77137 <400> 2134 Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser 10 ٠ 5 Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser 25 Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg . 40 Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly 55 <210> 2135 <211> 60 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser 20

Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly 55

<210> 2136

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2136

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro 40

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
65 70 75

<210> 2137

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2137

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr 65 70 75

<210> 2138

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2138

Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
1 5 10 15

Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala 20 25 30

Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser 35 40 45

Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys 50 55 60

Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile 65 70 75 80

Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys 85 90 95

Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu

Pro Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly

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> 125 120 115

Glu Gly Thr Gly Trp Val Phe Ser Leu Lys Arg Glu Ser Arg Arg Phe 135 . 140 130

<210> 2139

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2139

Met Leu His Trp Val Leu Ser Phe Phe Phe Leu Leu Ser Cys Pro Arg

Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro Gly Cys Ser Gln Cys Pro

Gly Arg Gly Met Trp Pro Gly Asp Pro Gly Pro Gly Ile Gln Gly Pro

Gly Leu Asp Leu Arg Thr Gly Met Glu Ala Thr Gly Ala Gln Gln Pro 60 . .

Thr Leu Ser Ser Pro His Cys Leu Leu Ser Leu Pro Thr Leu Pro Ala 70 . 75

Arg Ala Val Gln Leu Arg Trp Asp Leu Ser Ile Ser Arg Ala Gly Gly 90

Arg Val Ala Val Leu Gly Leu Cys Leu Glu Pro Gly Gly Ser Leu Leu 105

Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp Pro Cys Ala Ala Cys Pro 120

Pro Cys Pro Phe Val Pro Met Ser Gly Gly Gly Arg Pro Thr Val 135

Pro Glu Ala Gly His Gln Pro 150

<210> 2140

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2140

Met Pro Pro Tyr Thr Pro Phe Phe Gly Thr Arg Ala Leu Leu Ser Val 10

Ser Leu Pro Pro Pro Cys Met Leu His Trp Val Leu Ser Phe Phe Phe 25

Leu Leu Ser Cys Pro Arg Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro 35 40 45

Gly Cys Ser Gln Cys Pro Gly Arg Gly Met Trp Pro Gly Asp Pro Gly 50 55 60

Pro Gly Ile Gln Gly Pro Gly Leu Asp Leu Arg Thr Gly Met Glu Ala 65 70 75 80

Thr Gly Ala Gln Gln Pro Thr Leu Ser Ser Pro His Cys Leu Leu Ser 85 90 95

Leu Pro Thr Leu Pro Ala Arg Ala Val Gln Leu Arg Trp Asp Leu Ser 100 105 110

Ile Ser Arg Ala Gly Gly Arg Val Ala Val Leu Gly Leu Cys Leu Glu 115 120 125

Pro Gly Gly Ser Leu Leu Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp 130 135 140

Pro Cys Ala Ala Cys Pro Pro Cys Pro Phe Val Pro Met Ser Gly Gly 145 150 150 160

Gly Gly Arg Pro Thr Val Pro Glu Ala Gly His Gln Pro . 165 170

<210> 2141

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2141

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg

1 5 10 15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg 20 25 30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala 35 40 45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser 65 70 75 80

Lys Ser

<210> 2142

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2142
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 35 40 45

Lys Glu Glu Trp Val

<210> 2143

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2143

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 35 40 45

Lys Glu Glu Trp Val 50

<210> 2144

· <211> 53

<212> PRT

<213> Homo sapiens

<400> 2144

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 35 40 45

Lys Glu Glu Trp Val 50

<210> 2145

<211> 97

<212> PRT

<213> Homo sapiens

85

90

Ile

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<210> 2146
<211> 122
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2146
Met Met Thr Met Thr Ser Asp Arg Trp Phe Ser Met Ala Trp Ala Ser
                  5
Cys Ser Leu Ser Arg Pro Pro Leu Thr Pro Ser Cys Ser Cys Gln Gln
                                 25
Pro Ala Thr Val Ala Leu Leu Leu Gln Thr Ile Ser Val Cys Ser Ala
Gln Gln Ala Asp Pro Leu Ser Pro Pro Arg Ala Cys Arg Pro Xaa Arg
                         55
Gln Phe Pro Val Leu Gln Ser Ala Gly Pro Pro His Ser Pro His Val
                                          75
                     70
```

Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp 85 90 95

Phe Cys Xaa Ile Cys Cys Cys Phe Pro Gln Cys Leu Gly Arg Cys Leu 100 105 110

Glu His Thr Arg Cys Ser Ile Asn Pro Xaa 115 120

<210> 2147

<211> 99

<212> PRT

<213> Homo sapiens

<400> 2147

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 . 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
85 90 95

Pro Gly Asn

<210> 2148

<211> 245

<212> PRT

<213> Homo sapiens

~400× 2148

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser

1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

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The part of the Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 90

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 105

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 125 ' 120

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr 155

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 170

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 185

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 200

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 215

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 235 230

Ile Phe Pro Ser Ala 245

<210> 2149

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2149

Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Pro Arg 10

Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn

Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr 45

Ile Cys Ile Thr Phe Arg Thr Ser Ala 50

<210> 2150

<211> 152

<212> PRT

<213> Homo sapiens

PCT/US01/11988 WO 01/77137

. <400> 2150 Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys . 55

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr 70

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asń Ala

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His · 105

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln

Gly Pro Ala Ala Arg Gly Thr Trp

<210> 2151

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp 25

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr 55

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr

Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
85 90 95

- Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His 100 105 110
- Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa 115 120 125
- Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser 130 135 140
- Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp 165 170 175
- Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn 180 185 190
- Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr 195 200 205
- Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln 210 215 220
- Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp 225 230 235 240
- Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr 245 250 255
- Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala 260 265 270
- Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly 275 280 285
- Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
  290 295 300

<210> 2152

<211> 316

<212> PRT

<213> Homo sapiens

<400> 2152

- Met Leu Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
  1 5 10 15
- Alà Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln 20 25 30
- Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu 35 40 45
- Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn

60 55 50 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala 70 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val 105 Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp 120 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys 135 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr 150 Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val 170 165 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr 180 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu 200 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn 210 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln 235 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser 250 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg 265 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln 285 280 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His 300 295 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala 310

<210> 2153 <211> 831 <212> PRT

<213> Homo sapiens

Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His 120 Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val 155 Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His 170 Arg Leu Arg His His Arg Leu His His Leu Asp His Asn Asn 185 Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu 200 Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser 215 Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Gly Arg Lys Ser Asn Glu Asn Ser Glu Val Ile Thr Pro Gly Phe Pro Pro Asn His Asp 245 Gln Gly Glu Gln Tyr Glu His Asn Arg Val His Lys Pro Asp Arg Val His Asn Pro Gly His Ser His Val His Leu Pro Glu Arg Asn Gly His Asp Pro Gly Arg Gly His Gln Asp Leu Asp Pro Asp Asn Glu Gly Glu Leu Arg His Thr Arg Lys Arg. Glu Ala Pro His Val Lys Asn Asn Ala 315 Ile Ile Ser Leu Arg Lys Asp Leu Asn Glu Asp Asp His His Glu

330

325

Cys Leu Asn Val Thr Gln Leu Leu Lys Tyr Tyr Gly His Gly Ala Asn 345 Ser Pro Ile Ser Thr Asp Leu Phe Thr Tyr Leu Cys Pro Ala Leu Leu 360 Tyr Gln Ile Asp Ser Arg Leu Cys Ile Glu His Phe Asp Lys Leu Leu 375 Val Glu Asp Ile Asn Lys Asp Lys Asn Leu Val Pro Glu Asp Glu Ala 390 Asn Ile Gly Ala Ser Ala Trp Ile Cys Gly Ile Ile Ser Ile Thr Val 410 Ile Ser Leu Leu Ser Leu Leu Gly Val Ile Leu Val Pro Ile Ile Asn 425 Gln Gly Cys Phe Lys Phe Leu Leu Thr Phe Leu Val Ala Leu Ala Val 440 Gly Thr Met Ser Gly Asp Ala Leu Leu His Leu Leu Pro His Ser Gln 455 Gly Gly His Asp His Ser His Gln His Ala His Gly His Gly His Ser His Gly His Glu Ser Asn Lys Phe Leu Glu Glu Tyr Asp Ala Val Leu 485 Lys Gly Leu Val Ala Leu Gly Gly Ile Tyr Leu Leu Phe Ile Ile Glu His Cys Ile Arg Met Phe Lys His Tyr Lys Gln Gln Arg Gly Lys Gln 520 Lys Trp Phe Met Lys Gln Asn Thr Glu Glu Ser Thr Ile Gly Arg Lys . 540 535 530 Leu Ser Asp His Lys Leu Asn Asn Thr Pro Asp Ser Asp Trp Leu Gln 555 Leu Lys Pro Leu Ala Gly Thr Asp Asp Ser Val Val Ser Glu Asp Arg 565 Leu Asn Glu Thr Glu Leu Thr Asp Leu Glu Gly Gln Gln Glu Ser Pro Pro Lys Asn Tyr Leu Cys Ile Glu Glu Glu Lys Ile Ile Asp His Ser His Ser Asp Gly Leu His Thr Ile His Glu His Asp Leu His Ala Ala 615 Ala His Asn His His Gly Glu Asn Lys Thr Val Leu Arg Lys His Asn 635 625 His Gln Trp His His Lys His Ser His His Ser His Gly Pro Cys His 645 . . 650

Ser Gly Ser Asp Leu Lys Glu Thr Gly Ile Ala Asn Ile Ala Trp Met 660 665 670

- Val Ile Met Gly Asp Gly Ile His Asn Phe Ser Asp Gly Leu Ala Ile 675 680 685
- Gly Ala Ala Phe Ser Ala Gly Leu Thr Gly Gly Ile Ser Thr Ser Ile 690 695 700
- Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Val 705 710 715 720
- Leu Leu Lys Ala Gly Met Thr Val Lys Gln Ala Ile Val Tyr Asn Leu 725 730 735
- Leu Ser Ala Met Met Ala Tyr Ile Gly Met Leu Ile Gly Thr Ala Val 740 745 750
- Gly Gln Tyr Ala Asn Asn Ile Thr Leu Trp Ile Phe Ala Val Thr Ala 755 760 765
- Gly Met Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro Glu Met Leu 770 775 780
- His Gly Asp Gly Asp Asn Glu Glu His Gly Phe Cys Pro Val Gly Gln 785 790 795 800
- Phe Ile Leu Gln Asn Leu Gly Leu Leu Phe Gly Phe Ala Ile Met Leu 805 810
- Val Ile Ala Leu Tyr Glu Asp Lys Ile Val Phe Asp Ile Gln Phe 820 825 830

<210> 2154

<211> 480

<212> PRT

<213> Homo sapiens

<400> 2154

- Met Leu Phe Arg Asn Arg Phe Leu Leu Leu Leu Ala Leu Ala Ala Leu 1 5 10 15
- Leu Ala Phe Val Ser Leu Ser Leu Gln Phe Phe His Leu Ile Pro Val
- Ser Thr Pro Lys Asn Gly Met Ser Ser Lys Ser Arg Lys Arg Ile Met
- Pro Asp Pro Val Thr Glu Pro Pro Val Thr Asp Pro Val Tyr Glu Ala 50 55 60
- Leu Leu Tyr Cys Asn Ile Pro Ser Val Ala Glu Arg Ser Met Glu Gly 65 70 75 80
- His Ala Pro His His Phe Lys Leu Val Ser Val His Val Phe Ile Arg 85 90 95 .

His Gly Asp Arg Tyr Pro Leu Tyr Val Ile Pro Lys Thr Lys Arg Pro 100 105 110

- Glu Ile Asp Cys Thr Leu Val Ala Asn Arg Lys Pro Tyr His Pro Lys 115 120 125
- Leu Glu Ala Phe Ile Ser His Met Ser Lys Gly Ser Gly Ala Ser Phe 130 135 140
- Glu Ser Pro Leu Asn Ser Leu Pro Leu Tyr Pro Asn His Pro Leu Cys 145 150 155 160
- Glu Met Gly Glu Leu Thr Gln Thr Gly Val Val Gln His Leu Gln Asn 165 170 175
- Gly Gln Leu Leu Arg Asp Ile Tyr Leu Lys Lys His Lys Leu Leu Pro 180 185 190
- Asn Asp Trp Ser Ala Asp Gln Leu Tyr Leu Glu Thr Thr Gly Lys Ser 195 200 205
- Arg Thr Leu Gln Ser Gly Leu Ala Leu Leu Tyr Gly Phe Leu Pro Asp 210 215 220
- Phe Asp Trp Lys Lys Ile Tyr Phe Arg His Gln Pro Ser Ala Leu Phe 225 230 235 240
- Cys Ser Gly Ser Cys Tyr Cys Pro Val Arg Asn Gln Tyr Leu Glu Lys 245 250 255
- Glu Gln Arg Arg Gln Tyr Leu Leu Arg Leu Lys Asn Ser Gln Leu Glu 260 265 270
- Lys Thr Tyr Gly Glu Met Ala Lys Ile Val Asp Val Pro Thr Lys Gln 275 280 285
- Leu Arg Ala Ala Asn Pro Ile Asp Ser Met Leu Cys His Phe Cys His 290 295 300
- Asn Val Ser Phe Pro Cys Thr Arg Asn Gly Cys Val Asp Met Glu His 305 310 315 320
- Phe Lys Val Ile Lys Thr His Gln Ile Glu Asp Glu Arg Glu Arg Arg . 325 330 335
- Glu Lys Lys Leu Tyr Phe Gly Tyr Ser Leu Leu Gly Ala His Pro Ile 340 345 350
- Leu Asn Gln Thr Ile Gly Arg Met Gln Arg Ala Thr Glu Gly Arg Lys 355 360 365
- Glu Glu Leu Phe Ala Leu Tyr Ser Ala His Asp Val Thr Leu Ser Pro 370 380
- Val Leu Ser Ala Leu Gly Leu Ser Glu Ala Arg Phe Pro Arg Phe Ala 385 390 395 400
- Ala Arg Leu Ile Phe Glu Leu Trp Gln Asp Arg Glu Lys Pro Ser Glu 405 410 415

His Ser Val Arg Ile Leu Tyr Asn Gly Val Asp Val Thr Phe His Thr 420 . 425 430

Ser Phe Cys Gln Asp His His Lys Arg Ser Pro Lys Pro Met Cys Pro 435 440 445

Leu Glu Asn Leu Val Arg Phe Val Lys Arg Asp Met Phe Val Ala Leu 450 455 460

Gly Gly Ser Gly Thr Asn Tyr Tyr Asp Ala Cys His Arg Glu Gly Phe 465 470 475 480

<210> 2155

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2155

Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp

1 5 10 15

Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys
20 25 30

Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys 35 40 45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe

Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro

Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu 85 90 95

Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro 100 105 110

Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala 115 120 125

Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu 130 135 140

Cys Pro Pro Ser Gln Ala Gln 145 150

<210> 2156

<211> 89

<212> PRT

<213> Homo sapiens

PCT/US01/11988 WO 01/77137

<400> 2156

Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly

Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe

Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp

Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys

Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe 75

Ala Asp Ile Ser Ile Leu Ser Asp Phe 85

<210> 2157

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2157

Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe 10

Gly Leu His Ile Ile Phe Phe Leu Asn Ile Ser Cys Phe Asn Phe Arg 25

Val Phe Ile Leu Phe Glu Thr Arg Pro Glu Asp Ser Arg Leu Tyr Arg 40

Glu Arg Pro Val Leu Pro Arg Tyr

<210> 2158

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2158

Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu 5

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg 25 .

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln

Thr Ser

50

<210> 2159

<211> 50 <212> PRT

<213> Homo sapiens

<400> 2159

Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu 1 5 10 15

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln 35 40 45

Thr Ser

<210> 2160

<211> 81

<212> PRT

<213> Homo sapiens

<400> 2160

Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
1 5 10 15

Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Pro Ala Lys Ala Trp

Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn 35 40 45

Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys 50 55 60

Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln 65 70 75 80

Val-

<210> 2161

<211> 73

<212> PRT

<213> Homo sapiens

<400> 2161

Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val 1 5 10 - 15

Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu 20 25 30

Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln 1420

35 40 45

Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu Lys Ser Ser Thr Ser 50 55 60

Phe Ala Asn Ile Gln Glu Asn Ser Asn 65 70

<210> 2162

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2162

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Gln 50 55 60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Ser Ala Arg Pro Val Arg Leu Cys 100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn 115 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg 130 135 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu 145 150 155 160

Phe Phe Asn Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr 165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Lys Ser 180 185 190

Ile

<210> 2163

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2163

Met Ala Pro Glu Val Met Glu Gln Val Arg Gly Tyr Asp Phe Lys Ala 1 5 10 15

Asp Ile Trp Ser Phe Gly Ile Thr Ala Ile Glu Leu Ala Thr Gly Ala 20 25 30

Ala Pro Tyr His Lys Tyr Pro Pro Met Lys Val Leu Met Leu Thr Leu 35 40 45

Gln Asn Asp Pro Pro Ser Leu Glu Thr Gly Val Gln Asp Lys Glu Met 50 55 60

Leu Lys Lys Tyr Gly Lys Ser Phe Arg Lys Met Ile Ser Leu Cys Leu 65 70 75 80

Gln Lys Asp Pro Glu Lys Arg Pro Thr Ala Ala Glu Leu Leu Arg His 85 90 95

Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr 100 105 . 110

Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg 115 120 125

Val Pro Gly Ser Cys Pro

<210> 2164

<211> 334

<212> PRT

<213> Homo sapiens

· <220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro

1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
50 55 60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Xaa Ala Arg Pro Val Arg Leu Cys 100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn 115 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg 130 135 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu 145 150 155 160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr 165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Asn Leu 180 185 190

Phe Asn His Thr Leu Thr Cys Phe Glu His Asn Leu Gln Gly Asn Ala.
195 200 205

His Ser Leu Leu Gln Thr Lys Asn Tyr Ser Glu Val Cys Lys Asn Cys 210 215 220

Arg Glu Ala Tyr Lys Thr Leu Ser Ser Leu Tyr Ser Glu Met Gln Lys 225 230 235 240

Met Asn Glu Leu Glu Asn Lys Ala Glu Pro Gly Thr His Leu Cys Ile 245 250 255

Asp Val Glu Asp Ala Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr . 260 265 270

Phe Asn Cys Ser Val Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val 275 280 285

Ser Val Phe Ile Leu Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe 290 295 300

Leu His Ser Glu Gln Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu 305 310 310 320

Lys Ser Ser Thr Ser Phe Ala Asn Ile Gln Glu Asn Ser Asn 325 330

<210> 2165

<211> 49

<212> PRT

<213> Homo sapiens

<400> 2165

Met Val Leu Val Phe Ala Tyr Leu Cys Val Leu Leu Ile Val Cys Trp
1 5 10 15

Val Thr Ser Lys Thr Ser Leu Ala Leu Lys Tyr Thr Val Tyr Lys Asn 20 25 30

Phe Lys Arg Leu Ile Trp Asn Lys Ser Ile Leu Ile Ile Thr Leu Thr 35 40 45

Pro

<210> 2166 ·

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2166

Met Ser Leu Ser Ile Leu Val Ala Leu Ser Leu Gln Ile Leu Phe Leu 1 5 10 15

Phe Thr Ile Leu Lys Cys Met Leu Ala Lys Trp Val Asp Phe Gln Ile 20 . 25 30

Lys Cys Ser Phe His Lys Ser Phe Val Met Val Phe Trp Ser Glu Met

His Phe His Phe Ser Phe Leu Phe Leu Leu Ser Ile Leu Ser Phe Phe 50 55 60

Pro Asn Lys Ile Tyr Pro Gly Asp Tyr Ile Cys 65 70 75

<210> 2167

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2167

Met Leu Trp Ala Leu Asp Ser Leu Leu Phe Phe Ser His Ala Gln Leu
1 5 10 15

Val Pro Leu Gly Gly Gly Glu Glu Trp Gly Ser Pro Gly Leu Gly Leu 20 25 30

His Ser Ile Ile Pro Ser Gln Ala Ser Gln Gly Val Ser Ala Pro Ala 35 40 45

Gln Asp Leu Ala Gly Arg Ala Pro Tyr Arg Glu Ser Leu Gly Arg Leu
50 55 60

Ser Arg Leu Met Ala Gly Pro Ala Arg Gly Val Leu Arg Pro Ala Leu 65 70 75 80

Arg Thr Cys Pro Leu Phe 85

<210> 2168

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2168

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp

1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Asn Arg Ala Trp Gly Ala 35 40 45

Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe 50 55 60

Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly 65 70 75 80

Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr 85 90 95

Glu Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser 100 105 110

Leu Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg 115 120 125

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp 130 135 140

Gln Asp His Ile Tyr His Pro Gln 145 150

<210> 2169

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2169

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp

1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg 35 40 45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro 50 55 60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr 65 70 75 80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro 85 90 95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln 1425

100 105 110

Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
115 120 125

Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
. 130 135 140

<210> 2170

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2170

Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys 1 5 10 15

Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser

Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His 35 40 45

Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn 50 60

Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly 65 70 75 80

Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val 85 90 95

Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp 100 105 110

Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn 115 120 125

Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His 130 135 140

Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe 145 150 155 160

Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro 165 170 175

Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly 180 185 190

His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys 195 200 205

Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu 210 215 220

Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met 225 230 235 240

Thr Gln Cys Ser Lys Asp Lys Leu Ile Asn Leu Asp Leu Cys Ile Asp 245 250 255

Arg Ser Ser Tyr Thr Leu Val Asp Leu Thr Pro Val Ala Ala Val Leu 260 265 270

Pro Lys Ile Asn Thr Thr Glu Val Tyr Asn Lys Leu Lys Val Cys Asn 275 280 285

Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Ala Arg Phe His 290 295 300

Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu 305 310 315 320

Gly Trp Thr Ile Val Leu Asn Lys Ser Leu Pro Lys Leu Gly Asp His 325 330 335

Gly Tyr Asp Asn Ser Leu Ser Ser Met His Pro Phe Leu Ala Ala His 340 345 350

Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ser Val 355 360 365

Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro 370 375 380

Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp 385 390 395 400

Cys Ile Asn Leu Pro Glu Ala Ile Gly Ile Val Ile Gly Ala Leu Leu 405 410 415

Val Leu Thr Thr Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu 420 425 430

Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp 445

Asp Pro Leu Ile Glu 450

<210> 2171

<211> 287

<212> PRT

<213> Homo sapiens

<400> 2171

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val 20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser 35 40 45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp 50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser 65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val 85 90 95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu 100 105 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His 115 120 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val 130 135 140

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro 145 150 155 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val 165 170 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr 180 185 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu 195 200 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser 210 215 220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala 225 230 235 240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val 245 250 255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala 260 265 270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala 275 280 285

<210> 2172

<211> 613

<212> PRT

<213> Homo sapiens

<400>. 2172

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu

1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val 20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser

1428

		35					40				•	45			
Cys	Asn 50	Val	Thr	Gly	Tyr	Glu 55	Gly	Pro	Ala	Gln	Gln 60	Asn	Phe	Glu	Tre
Phe 65	Leu	Tyr	Arg	Pro	Glu 70	Ala	Pro	Asp	Thr	Ala 75	Leu	Gly	Ile	Val	Şer 80
Thr	Lys	Asp	Thr	Gln 85	Phe	Ser	Tyr	Ala	Val 90	Phe	Lys	Ser	Arg	Val 95	
Ala	Gly	Glu	Val 100	Gln	Val	Gln	Arg	Leu. 105	Gln	Gly	Asp	Ala	Val 110	Val	Leu
Lys	Ile	Ala 115	Arg	Leu	Gln	Ala	Gln 120	Asp	Ala	Gly	Ile	Tyr 125	Glu	Cys	His
Thr	Pro 130	Ser	Thr	Asp	Thr	Arg 135	Tyr	Leu	Gly	Ser	Tyr 140	Ser	Gly	Lys	Val
145					150					155		Ala			160
				165					170			Arg		175	
His	Glu	Gly	Gln 180	Glu	Leu	Ala	Leu	Gly 185	Cys	Leu	Ala	Arg	Thr 190	Ser	Thr
	_	195					200					Ser 205			
Ala	Pro 210	Val	Gly	Arg	Ser	Thr 215	Leu	Gln	Glu	Val	Val 220	Gly	Ile	Arg	Ser
225		•			230					235		Arg			240
				245					250			Tyr		255	
	-	_	260					265					.270		
		275					280					Gln 285			
	290					295		,			300	Leu			
305			•		310					315		Gly			320
				325					330			Pro		335	
			340	•				345				Pro	350		
Pro	GTĀ	Pro	GTÀ	Arg	ьeu	Val	ALA		Leu .429	ASP	rnr	Glu	стĀ	vaı	GT.

355 360 365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val 370 380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp 385 390 395 400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
405 410 415

Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val 420 425 430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala 435 440 445

Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile 450 455 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp 465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu 485 490 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro 500 505 510

Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg 515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys 530 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala 545 550 555 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala 565 570 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu 580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys 595 600 605

Arg Leu Arg Lys Arg 610

<210> 2173

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2173

Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val

1 5 10 15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly 20 25 30

Glu Pro Ala Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly 35 40 45

Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile 50  $\phantom{-}55\phantom{-}\phantom{0}$ 

Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly 65 70 75 80

Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His
85 90 95

Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro 100 105 110

<210> 2174

<211> 613

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (507)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu 1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser 35 40 45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp 50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser 65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
85 90 95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu 100 105 110

Lys Ile Ala Arg Leu Glm Ala Glm Asp Ala Gly Ile Tyr Glu Cys His

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val

	130					135					140				
Glu 145	Leu	Arg	Val	Leu	Pro 150	Asp	Val	Leu	Gln	Val 155	Ser	Ala	Ala	Pro	Pro 160
Gly	Pro	Arg	Gly	Arg 165	Gln	Ala	Pro	Thr	Ser 170	Pro	Pro	Arg	Met	Thr 175	Val
His	Glu	Gly	Gln 180	Glu	Leu	Ala	Leu	Gly 185	Cys	Leu	Ala	Arg	Thr 190	Ser	Thr
Gln	Lys	His 195	Thr	His	Leu	Ala	Val 200	Ser	Phe	Gly	Arg	Ser 205	Val	Pro	Glu
Ala	Pro 210	Val	Gly	Arg	Ser	Thr 215	Leu	Gln	Glu	Val	Và1 220	Gly	Île	Arg	Ser
Asp 225	Leu	Ala	Val	Glu	Ala 230	Gly	Ala	Pro	Tyr	Ala 235	Glu	Arg	Leu	Ala	Ala 240
Gly	Glu	Leu	Arg	Leu 245	Gly	Lys	Glu	Gly	Thr 250	Asp	Arg	Tyr.	Arg	Met 255	Val
Val	Gly	Gly	Ala 260	Gln	Ala	Gly	Asp	Ala 265	Gly	Thr	Tyr	His	Cys 270	Thr	Ala
Ala	Glu	Trp 275	Ile	Gln	Asp	Pro	Asp 280	Gly	Ser	Trp	Ala	Gln 285	Ile	Ala	Glu
Lys	Arg 290	Ala	Val	Leu	Ala	His 295	Val	Asp	Val	Gln	Thr 300	Leu	Ser	Ser	Gln
Leu 305	Ala	Val	Thr	Val	Gly 310	Pro	Gly	Glu	Arg	Arg 315	Ile	Gly	Pro	Gly	Glu 320
Pro	Leu	Glu	Leu	Leu 325	Cys	Asn	Val	Ser	Gly 330	Ala	Leu	Pro	Pro	Ala 335	Gly
Arg	His	Ala	Ala 340	Tyr	Ser	Val	Gly	Trp 345	Glu	Met	Ala	Pro	Ala 350	Gly	Ala
Pro	Gly	Pro 355	Gly	Arg	Leu	Val	Ala 360	Gln	Leu	Asp	Thr	Glu 365	Gly	Val	Gly
Ser	Leu 370	Gly	Pro	Gly	Tyr	Glu 375	Gly	Arg	His	Ile	Ala 380	Met	Glu	ГÀЗ	Val
385	•	_			390					395				Gly	400
			•	405					410					Ser 415	
			420					425					430		
		435	•				440					445		Leu	
Gly	Gly	Thr	Val	Tyr	Arg	Gly	Glu		Ala .432	Ser	Leu	Leu	Cys	Asn	Ile

460

450 455

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp 465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu 485 490 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro 500 505 510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg 515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys 530 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala 545 550 555 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala 565 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu 580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys 595 600 605

Arg Leu Arg Lys Arg 610

<210> 2175

<211> 60

<212> PRT '

<213> Homo sapiens

<400> 2175

Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg

1 5 10 15

Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu 20 25 30

Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu 35 40 45

Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val
50 55 60

<210> 2176

<211> 396

<212> PRT

<213> Homo sapiens

· <400> 2176

Met Trp Trp Leu Leu Trp Gly Val Leu Gln Ala Cys Pro Thr Arg 10 Gly Ser Val Leu Leu Ala Gln Glu Leu Pro Gln Gln Leu Thr Ser Pro Gly Tyr Pro Glu Pro Tyr Gly Lys Gly Gln Glu Ser Ser Thr Asp Ile Lys Ala Pro Glu Gly Phe Ala Val Arg Leu Val Phe Gln Asp Phe Asp Leu Glu Pro Ser Gln Asp Cys Ala Gly Asp Ser Val Thr Ile Ser Phe Val Gly Ser Asp Pro Ser Gln Phe Cys Gly Gln Gln Gly Ser Pro Leu 90 Gly Arg Pro Pro Gly Gln Arg Glu Phe Val Ser Ser Gly Arg Ser Leu 105 Arg Leu Thr Phe Arg Thr Gln Pro Ser Ser Glu Asn Lys Thr Ala His 125 120 Leu His Lys Gly Phe Leu Ala Leu Tyr Gln Thr Val Ala Val Asn Tyr 135 Ser Gln Pro Ile Ser Glu Ala Ser Arg Gly Ser Glu Ala Ile Asn Ala 155 Pro Gly Asp Asn Pro Ala Lys Val Gln Asn His Cys Gln Glu Pro Tyr 170 Tyr Gln Ala Ala Ala Gly Ala Leu Thr Cys Ala Thr Pro Gly Thr 185 Trp Lys Asp Arg Gln Asp Gly Glu Glu Val Leu Gln Cys Met Pro Val 200 Cys Gly Arg Pro Val Thr Pro Ile Ala Gln Asn Gln Thr Thr Leu Gly 215 210 Ser Ser Arg Ala Lys Leu Gly Asn Phe Pro Trp Gln Ala Phe Thr Ser 230 Ile His Gly Arg Gly Gly Ala Leu Leu Gly Asp Arg Trp Ile Leu 245 Thr Ala Ala His Thr Ile Tyr Pro Lys Asp Ser Val Ser Leu Arg Lys Asn Gln Ser Val Asn Val Phe Leu Gly His Thr Ala Ile Asp Glu Met Leu Lys Leu Gly Asn His Pro Val His Arg Val Val His Pro Asp Tyr Arg Gln Asn Glu Ser His Asn Phe Ser Gly Asp Ile Ala Leu Leu 310 315 305

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys 325 330 .335

Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val 340 345 350

Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr 355 360 365

Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln 370 375 380

Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys Lys 385 390 395

<210> 2177

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2177

Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser 1 5 10 15

Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
20 25 30

Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro
35 40 45

Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro 50 55 60

Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro 65 70 75 80

Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser 85 90 95

Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly 100 105 110

Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr 115 120 . 125

Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser 130 135 140

Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe 145 150 155 160

Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln 165 170

<210> 2178 <211> 142

PCT/US01/11988 WO 01/77137

<212> PRT <213> Homo sapiens <220> <221> SITE <222> (111) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2178 Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu 5 . Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile 25 Glu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu . 40 Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg 55 Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile 85 Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr 105 100 Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser 120 115 Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser 130 135 <210> 2179 <211> 868 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (194) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (309) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (550)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2179

Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp

1				5					10					15	
Leu	Ala	Lys	Pro 20	Leu	Val	Lys	Phe	Ile 25	Gln	Gln	Thr	Tyr	Pro 30	Ser	Gly
Gly	Glu	Glu 35	Gln	Ala	Gln	Tyr	Суs 40	Arg	Ala	Ala	Glu	Glu 45	Leu	Ser	Lys
Leu	Arg 50	Arg	Ala	Ala	Val	Gly 55	Arg	Pro	Leu	Asp	Lys 60	His	Glu	Gly	Ala
Leu 65	Glu	Thr	Leu	Leu	Arg 70	Tyr	Tyr	Asp	Gln	11e 75	Суз	Ser	Ile	Glu	Pro 80
				85	Glu				90					95	
Asp	Ala	Phe	Asp 100	Lys	Gly	Ser.	Leu	Phe 105	Gly	Gly	Ser	Val	Lys 110	Leu	Ala
		115			Tyr		120					125			
	130				Ile	135					140				
Gly 145	Leu	Lys	Ile	Ala	Ala 150	Lys	His	Tyr	Gln	Phe 155	Ala	Ser	Gly	Ala	Phe 160
Leu	His	Ile	Lys	Glu 165	Thr	Val	Leu	Ser	Ala 170	Leu	Ser	Arg	Glu	Pro 175	Thr
Val	Asp	Ile	Ser 180	Pro	Asp	Thr	Val	Gly 185	Thr	Leu	Ser	Leu	Ile 190	Met	Leu
Ala	Xaa	Ala 195		Glu	Val	Phe	Phe 200		Lys	Ala	Thr	Arg 205	Asp	Lys	Met
Lys	Asp 210		Ile	Ile	Ala	Lys 215		Ala	Asn	Gln	`Ala 220	Ala	Asp	Tyr	Phe
Gly 225		Ala	Phe	Lys	Gln 230		Gln	Tyr	Lys	235	Thr	Leu	. Pro	Lys	Glu 240
				245	,				250	)				255	
			260	)				265	<b>;</b>				270		Glu
Glu	ılle	275		, Leu	Gln	His	280	Ala	Glu	ı Lev	ı Ile	285	Thr	· Val	Ala
Ser	290		Asp	Glu	. Туг	Val		ı Val	L Lys	s Asp	3.00	e Ser	: Asţ	Tys	Ile
Asr 305		y Ala	a Let	ı Xaa	a Ala 310		a Lys	E Lys	Ası	Ası 315	n Asp	Phe	e Ile	Tyr	His 320
Asp	) Arg	y Val	L Pro	o Asp	) Lev	і Гу:	s Ası		1 Asj 1437		o Ile	e Gly	y Lys	a Ala	Thr

330 325

Leu Val Lys Ser Thr Pro Val Asn Val Pro Ile Ser Gln Lys Phe Thr 345

Asp Leu Phe Glu Lys Met Val Pro Val Ser Val Gln Gln Ser Leu Ala 360

Ala Tyr Asn Gln Arg Lys Ala Asp Leu Val Asn Arg Ser Ile Ala Gln 375

Met Arg Glu Ala Thr Thr Leu Ala Asn Gly Val Leu Ala Ser Leu Asn 390

Leu Pro Ala Ala Ile Glu Asp Val Ser Gly Asp Thr Val Pro Gln Ser 405

Ile Leu Thr Lys Ser Arg Ser Val Ile Glu Gln Gly Gly Ile Gln Thr 420

Val Asp Gln Leu Ile Lys Glu Leu Pro Glu Leu Leu Gln Arg Asn Arg

Glu Ile Leu Asp Glu Ser Leu Arg Leu Leu Asp Glu Glu Glu Ala Thr 450

Asp Asn Asp Leu Arg Ala Lys Phe Lys Glu Arg Trp Gln Arg Thr Pro · 475

Ser Asn Glu Leu Tyr Lys Pro Leu Arg Ala Glu Gly Thr Asn Phe Arg 490 485

Thr Val Leu Asp Lys Ala Val Gln Ala Asp Gly Gln Val Lys Glu Cys 505

Tyr Gln Ser His Arg Asp Thr Ile Val Leu Leu Cys Lys Pro Glu Pro 520

Glu Leu Asn Ala Ala Ile Pro Ser Ala Asn Pro Ala Lys Thr Met Gln 535

Gly Ser Glu Val Val Xaa Val Leu Lys Ser Leu Leu Ser Asn Leu Asp 555

Glu Val Lys Lys Glu Arg Glu Gly Leu Glu Asn Asp Leu Lys Ser Val 570

Asn Phe Asp Met Thr Ser Lys Phe Leu Thr Ala Leu Ala Gln Asp Gly 580 585

Val Ile Asn Glu Glu Ala Leu Ser Val Thr Glu Leu Asp Arg Val Tyr 600

Gly Gly Leu Thr Thr Lys Val Gln Glu Ser Leu Lys Lys Gln Glu Gly 615 610

Leu Leu Lys Asn Ile Gln Val Ser His Gln Glu Phe Ser Lys Met Lys 635 630

Gln Ser Asn Asn Glu Ala Asn Leu Arg Glu Glu Val Leu Lys Asn Leu

645 650 655

Ala Thr Ala Tyr Asp Asn Phe Val Glu Leu Val Ala Asn Leu Lys Glu 660 665 670

Gly Thr Lys Phe Tyr Asn Glu Leu Thr Glu Ile Leu Val Arg Phe Gln 675 680 685

Asn Lys Cys Ser Asp Ile Val Phe Ala Arg Lys Thr Glu Arg Asp Glu 690 695 700

Leu Leu Lys Asp Leu Gln Gln Ser Ile Ala Arg Glu Pro Ser Ala Pro 705 710 715 720

Ser Ile Pro Thr Pro Ala Tyr Gln Ser Leu Pro Ala Gly Gly His Ala 725 730 735

Pro Thr Pro Pro Thr Pro Ala Pro Arg Thr Met Pro Pro Thr Lys Pro 740 745 750

Gln Pro Pro Ala Arg Pro Pro Pro Pro Val Leu Pro Ala Asn Arg Ala
. . 755 760 765

Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro 770 775 780

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly 785 790 795 800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro 805 810 815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro 820 825 830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly 835 840 845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr 850 855 860

Tyr Pro Gln Gln 865

<210> 2180

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2180

Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Leu Gly Leu

1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu 20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu 35 40 45

Val Ala Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr 50 55 60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly 65 70 75 80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu 85 90 95

Gln Trp Val Lys Phe Trp 100

<210> 2181

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu 50 60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly 65 70 75 80

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly 85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr 100 105 . 110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly 115 120 125

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 130 135 140

<210> 2182

<211> 156

<212> PRT

<213> Homo sapiens

PCT/US01/11988 WO 01/77137

<400> 2182

Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val

Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly 105

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr 120

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly 135

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 150 145

<210> 2183

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2183

Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val

Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln

Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile

Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe 55

Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg 65

Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp

Phe Val Phe Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly 100 105

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu 115 120 125

Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe 130 135 140

Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly 145 150 150 160

Phe Ser Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile 165 170 175

Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln 180 185 190

Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile 195 200 205

Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu 210 215 220

Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 225 230 235

<210> 2184

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2184

Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala 1 5 10 15

Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val 20 25 30

Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro 35 40 45

Trp Val Leu Met Gly Phe Ser Leu Leu Gly Asn Ser Ile Ile Val 50 55 60

Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp 70 75 80

Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser 85 90 95

Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn

Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln 115 120 . 125

Arg Leu Gly Gly 130 ·

PCT/US01/11988 WO 01/77137

<210> 2185 <211> 339 <212> PRT <213> Homo sapiens <400> 2185 Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly 5 Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu 35 Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe 120 Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe 130 Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly 155 Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp 170 165 Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln 185 Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser 200 195 Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys

215 .

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala 235 225

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp 250

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu 260

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg 290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly 305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu 325 330 335

Asp Asn Ala

<210> 2186

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2186

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr 20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu 35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu 50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile 65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro 85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn 100 105 110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe 115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe 130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly 145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp 165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln 180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser 195 200 205 PCT/US01/11988

WO 01/77137 Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala 235 230 Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp 250 Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu 265 Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly 280 Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg 295 Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly 315 Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu . 335 330 Asp Asn Ala <210> 2187 <211> 509 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (168)<sup>c</sup> <223> Xaa equals any of the naturally occurring L-amino acids <220>

<221> SITE

<222> (198)

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<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (246)
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<220>
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<221> SITE
<222> (303)
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<220>
<221> SITE
·<222> (493)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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 <222> (505)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 2187
 Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln
 Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Thr Leu Thr Ile
              20
 Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu
 Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg
                        55 .
      50
 Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr
 Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys
                                       90
 Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn
                                  105
             100
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Ser Val Glu Gln Asn Asp Met Leu Arg Lys Val Thr Phe Asp Pro Glu 115 120 125

- Val Phe Phe Asn Ile Leu Leu Pro Pro Ile Ile Phe His Ala Gly Tyr 130 135 140
- Ser Leu Lys Lys Arg His Phe Phe Arg Asn Leu Gly Ser Ile Leu Ala 145 150 150
- Tyr Ala Phe Leu Gly Thr Ala Xaa Ser Cys Phe Ile Ile Gly Asn Leu 165 170 175
- Met Tyr Gly Val Val Lys Leu Met Lys Ile Met Gly Gln Leu Ser Asp 180 185 190
- Lys Phe Tyr Tyr Thr Xaa Xaa Leu Phe Phe Gly Ala Ile Ile Ser Ala 195 200 205
- Thr Asp Pro Val Thr Val Leu Ala Ile Phe Asn Glu Leu His Ala Asp 210 215 220
- Val Asp Leu Tyr Ala Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala 225 230 235 240
- Val Ala Ile Xaa Leu Xaa Ser Ser Ile Val Ala Tyr Gln Pro Ala Gly 245 250 255
- Leu Asn Thr His Ala Phe Asp Ala Ala Ala Phe Phe Lys Ser Val Gly 260 265 270
- Ile Phe Leu Gly Ile Phe Ser Gly Ser Phe Thr Met Gly Ala Val Thr 275 280 285
- Gly Val Val Thr Ala Xaa Val Thr Lys Phe Thr Lys Xaa His Xaa Phe 290 295 300
- Pro Leu Leu Glu Thr Ala Leu Phe Phe Leu Met Ser Trp Ser Thr Phe 305 310 315 320
- Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly Val Val Ala Val Leu Phe 325 330 335
- Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu 340 345 350
- Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu Val Leu His Phe Leu Ala 355 360 365
- Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln 370 375 380
- Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile 385 390 395 400
- Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn 405 410 415
- Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met 420 425 430

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp 435

Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile 455 460

Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu 470

Ser Trp. Leu Asn Ile Arg Val Gly. Val Asp Pro Asp Xaa Asp Pro Pro

Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala 500

<210> 2188

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2188

Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu

Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser 20

Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp 40

Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu

Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His

Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala

Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met 105

Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp 125 120 115

Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser . 135 140

Leu Gln 145

<210> 2189

<211> 530

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (490)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (494)
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<221> SITE
<222> (495)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2189
Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
         35
Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu
 65
Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
                                      90
Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr
Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe
                             120
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro
     130
Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp
                                         155
 Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu
                                     170
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Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg 180 185 190 Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser

195 200 205

Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val 210 215 220

Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val 225 230 235 240

Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro 245 250 255

Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg 260 265 270

Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys 275 280 285

Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr 290 295 300

Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu 305 310 315 320

Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro 325 330 335

Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser 340 345 350

Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg

Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn 370 375 380

Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp 385 390 395 400

Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys 405 410 415

Tyr Leu Thr Trp Alá Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr 420 425 430

Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys
435
440
445

Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala 450 455 460

Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val 465 470 475 480

Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala 485 490 495

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys 500 505 510

Lys Lys 530

<210> 2190 ·

<211> 265

<212> PRT

<213> Homo sapiens

<400> 2190

Met Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr 20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys 115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val 130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser 145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe 165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro 180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly 210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg

235

230 225

Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser 250

Gln Asn Arg Asn Ser Tyr Gly Thr Lys 260

<210> 2191

<211> 99

<212> PRT

<213> Homo sapiens

<400> 2191

Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe

Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser

Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His 40

Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala 55

Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val 70

Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr 90 85

Glu Ala Leu

<210> 2192

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2192 .

Met Pro Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro Val Thr · 10

Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg 25

Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala . 40

Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr

Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly Asn Leu Ala Ile Gln Gln 70

Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys

Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly 100

Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe 120

Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys

<210> 2193

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193

Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr 25

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn 35

Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn 90

Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp 105

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln 120

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr 135 · 130

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr 155 150 Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys 170 Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser 185 Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly 215 Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr 235 230 Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile 250 Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn 265 Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala 275 280 285 Leu Lys Asn Lys Gln Cys . 290 <210> 2194 <211> 487 <212> PRT <213> Homo sapiens <400> 2194 · Met Lys His Leu Trp Phe Phe Leu Leu Val Ala Ala Pro Arg Trp 10 Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys 20 Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile 40 Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr 70 Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala 105 Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln

1454

125 120 115 Leu Glu Tyr Arg Gly Phe Asp Tyr Trp Gly Gln Gly Ile Leu Val Thr 135 Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu 155 150 Asp Ser Thr Pro Gln Asp Gly Asn Val Val Val Ala Cys Leu Val Gln 170 Gly Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly 185 180 Gln Asn Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly 200 Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Pro Asp Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys 250 Cys His Pro Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu 265 Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp 285 280 Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala 295 Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser 315 310 Ser Val Leu Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe 330 325 Thr Cys Thr Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn 340 Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro 360 Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys 370 Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln 395 390 Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg 405 Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu 425 . Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met 1455

435

440

445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp 450 455 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala 465 470 475 480

Glu Val Asp Gly Thr Cys Tyr 485

<210> 2195

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2195

Met Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu 50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys 115 120 125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser 130 135 140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val 145 150 155 160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu 165 170 175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp 180 185

<210> 2196

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2196
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
10 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp 20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu 35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile 50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr 65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu 85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp 100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp 145 150 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu 165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys 245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys 275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe 290 295

<210><211><211><212><213>	> 29 > PR	8 T	apie	ns											
<400 Met I 1	> 21 Lys	97. Thr	Leu	Gln 5	Ser	Thr	Leu	Leu	Leu 10	Leu	Leu	Leu	Val	Pro 15	Leu
Ile 1	Lys	Pro	Ala 20	Pro	Pro	Thr	Gln	Gln 25	Asp	Ser	Arg	Ile	Ile 30	Tyr	Asp
Tyr '	Gly	Thr 35	Asp	Asn	Phe	Glu	Glu 40	Ser	Ile	Phe	Ser	Gln 45	Asp	Tyr	Glu
Asp	Lys 50	Tyr	Leu	Asp	Gly	Lys 55	Asn	Ile	Lys	Glu	Lys 60	Glu	Thr	Val	Ile
Ile 65	Pro	Asn	Glu	Lys	Ser 70	Leu	Gln	Leu	Gln	· Lys 75	Asp	Glu	Ala	.Ile	Thr 80
Pro	Leu	Pro	Pro	<b>L</b> уs 85	Lys	Glu	Asn	Asp	Glu 90	Met	Pro	Thr	Cys	Leu 95	Leu
Cys	Val	Cys	Leu 100	Ser	Gly	Ser	Val	Tyr 105	Cys	Glu	Glu	Val	Asp 110	Ile	Asp
Ala	Val	Pro 115	Pro	Leu	Pro	Lys	Glu 120	Ser	Ala	Tyr	Leu	Tyr 125	Ala	Arg	Phe
Asn	Lys 130		Lys	Lys	Leu	Thr 135	Ala	Lys	Asp	Phe	Ala 140	Asp	Ile	Pro	Asn
Leu 145	Arg	Arg	Leu	Asp	Phe 150	Thr	Gly	Asn	Leu	11e	Glu	Asp	Ile	Glu	Asp 160
Gly	Thr	Phe	Ser	Lys 165		. Ser	Leu	Leu	170	ı Glu	Leu	Ser	Leu	175	Glu
Asn	Gln	Leu	Leu 180	Lys )	Leu	Pro	Val	. Leu 185	ı Pro	Pro	b Lys	. Leu	190	Leu	Phe
Asn	Ala	Lys 195		Asn	Lys	: Ile	200		r Arg	g Gly	/ Ile	205	s Ala	a Asr	a Ala
Phe	Lys 210		s Lev	ı Asr	n Asr	1 Leu 215	ı Thi	Phe	e Le	и Ту	220	ı Ası )	o His	s Ası	ı Ala
Leu 225		ı Seı	c Vai	l Pro	230		ı Leı	ı Pr	o Gl	u Se: 23	r Let 5	ı Ar	g Va	l Ile	240
Leu	ı Glı	n Phe	e Ası	n Ası 24!		e Ala	a Se:	r Il	e Th 25	r As	p As	o Th	r Ph	e Cy:	s Lys 5
Ala	a Ası	n Asj	p Th	r Se: 0	r Ty	r Il	e Ar	g As 26	p Ar 5	g I1	e Gl	u Gl	u Il 27	e Ar	g Le
Glı	ı Gl	y As	n Pr	o Il	e Va	l Le	u Gl	у Lу	s Hi		o As	n Se	r Ph	e Il	e Cy

280

285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe 295 290

<210> 2198

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2198

Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val ' 5

Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His . 25

Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser 35

<210> 2199

<211> 472

<212> PRT

<213> Homo sapiens

<400> 2199

Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln 20

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala 40

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu 70

Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr 135 140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp 155 145

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp 170 Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu 185 Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met 200 Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile 265 Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg 280 Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly 295 Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu 310 Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp 325 \* Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp 340 Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys 360 Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys 395 Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val 425 Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val 460 455 Gln Leu Phe Lys Asp Asp Pro Met 470 465

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<210> 2200
<211> 626
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (353)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (354)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids
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Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp
             20
Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu
         35
Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu
Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys
Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu
Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val
             100
Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu
                             120
His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu
    .130
Arg Tyr Ile Lys Gln Leu Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala
 Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly
 Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser
                                 185
 Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu
                                    1461
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		195					200					205			
Gly	His 210	Gly	Pro	Phe	Ser	His 215	Met	Phe	Asp	Gly	Arg 220	Phe	Ile	Pro	Leu
Ala 225	Arg	Pro	Glu	Val	Lys 230	Trp	Thr	His	Glu	Gln 235	Gly	Ser	Val	Met	Met. 240
Phe	Glu	His	Leu	Ile 245	Asn	Ser	Asn	Gly	Ile 250	Lys	Pro	Val	Met	G1u 255	Gln
Tyr	Gly	Leu	Ile 260	Pro	Glu	Glu	Asp	Ile 265	Cys	Phe	Ile	Lys	Glu 270	Gln	Ile
Val	Gly	Pro 275	Leu	Glu	Ser	Pro	Val 280	Glu	Asp	Ser	Leu	Trp 285	Pro	Tyr	Lys
_	290		Glu			295					300				
305			Ile		310					315					320
			Gly	325					330			•		335	
		-	Val 340					345					350		
		355	Val				360					365	•		
	370		Arg			375		•			380				
385			Asp		390					395					400
			Gly	405					410					415	
			Thr 420		•			425					430		
		435					440					445			
	450		, Asn			455	; ·	•			460	)			
465			: Ile		470	)			•	475	5				480
			Lys	485	5				490	)		٠.		495	•
			va] 500	)				505	5				510	)	
Ası	n Pro	) Ile	e Ası	, His	s Va:	. Se	r Phe		r Cy: 1462		s TNI	. Ala	a PTC	, ASI	, WL

515 520 525

Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys 530 535 540

Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys 545 550 560

Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg 565 570 575

Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr 580 585 590

Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr 595 600 605

Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp 610 615 620

Pro Met 625

<210> 2201

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 150 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala 245 :

<210> 2202

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2202

Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Ser Ser Leu
1 10 15

Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr 20 25 30

<210> 2203

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2203

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 105 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 120 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 155 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 185 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 200 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 215 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 235 230 Ile Phe Pro Ser Ala 245 <210> 2204 <211> 245 <212> PRT <213> Homo sapiens <400> 2204 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 25 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly

. 70

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 175 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 185 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 235 Ile Phe Pro Ser Ala 245 <210> 2205 <211> 245 <212> PRT <213> Homo sapiens <400> 2205

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

110 105 100

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 120

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 135

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 155

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 170

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 185

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 205 200 . 195 .

. Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 215 · .

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 235 230

Ile Phe Pro Ser Ala 245

<210> 2206

<211> 245

<212> PRT

<213> Homo sapiens

. <400> 2206

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 5

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 55

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 105

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 120

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 135 130

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 155

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 185

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 200

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 215

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu

Ile Phe Pro Ser Ala

<210> 2207

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 90

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 120 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 135 140 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 175 170 165 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 205 200 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 220 Ile Phe Pro Ser Ala 225 <210> 2208 <211> 207 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (75) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> .(77) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (112) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2208 Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys 25

45

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp

40

35

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala

- Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile
- Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr
- Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa
- Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr
- Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu
- Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys
- Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly
- Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile 185
- Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp 200

<210> 2209

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2209

- Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp
- Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser 20
- Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser
- Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln
- Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val
- Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr
- Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln 105
- Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

115 120 125

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe 145 150 155 160

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
165 170 175

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser 180 185 190

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu 195 200 205

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser 210 215 220

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 225 230 235

<210> 2210

<211> 234

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser 1 5 10 15

Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser 20 25 30

Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp 35 40 45

Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro 50 55 60

Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser 65 70 75 80

Arg Phe Ser Gly Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn 85 90 95

Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn 100 105 110

Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr 145 150 150 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 225 230

<210> 2211

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2211

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu 1 5 10 15

Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp 35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Arg Tyr Lys Gln Lys Phe Gln 65 70 75 80

Ser Val Phe Thr Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn 85 90 95

Ser Leu Ile Arg Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr 100 105 110

Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr 115 120 125 .

Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr 130 135 140

Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr

Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu

165 170 .1

Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln
180 185 190

Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp 195 200 205

<210> 2212

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2212

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu 1 5 10 15

Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala 50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu 65 70 75 80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro 85 90 95

Gly Val Pro Gly Pro Met Gly Ile Pro Gly Glu Pro Gly Glu Glu Gly 100 105 110

Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln Thr 115 120 125

His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val Leu 130 135 140

Thr Asn Pro Gln Glu Ile Met Thr Arg Ala Leu Ala Ser Ser Pro Ala 145 150 150 160

Lys Ser Pro Ala Ser Thr Thr Leu Ser Thr Thr Arg Arg Ile Gln Pro 165 170 175

Thr Cys Ala Cys Cys Cys Thr Ala Ala Ala Ser Lys Trp Ser Pro Ser 180 185 190

Val Ala Thr Arg Pro Lys Pro Ile Arg Ser Thr Arg Ala Val Cys Cys 195 200 205

<210> 2213 <211> 263 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (112) <223> Xaa equals any of the naturally occurring L-amino acids <400> 2213 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro Leu Leu Pro Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr 90 85 Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa 105 Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln 120 115 Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr 135 Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro 155 145 Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr 170 Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly 180 Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser 200 Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys 215 210 Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln

230

235

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu 250

Asn Ser Asp Leu Leu Tyr Cys 260

<210> 2214

<211> 55

<212> PRT

<213> Homo sapiens

<400> 2214

Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro

Leu Leu Pro Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala

Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg 40

Val Phe Leu Lys Asn Ser Gln 50

<210> 2215

<211> 350

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215

Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn

Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val'Ala Ala Leu 35

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val 75

Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser 105 Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln 155 Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn 170 Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp 185 Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser 200 Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys 215 Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser 290 Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp

<210> 2216 <211> 350

<212> PRT

<213> Homo sapiens

<400> 2216

Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

345

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp

1				5					10		•			15	
Asn (	slu :	Phe	Ser 20	Ile :	Leu I	.ys	Ser :	Pro 25	Gly	Ser	Val	Val	Phe 3	Arg I	Asn
Gly P	Asn '	Trp 35	Pro	Ile	Pro (	Gly	Glu . 40	Arg	Ile	Pro	Asp	Val 45	Ala .	Ala 1	Leu
Ser 1	Met 50	Gly	Phe	Ser	Val 1	Lys 55	Glu	Asp	Leu	Ser	Trp 60	Pro	G1y	Leu :	Ala
65					70				•	75			Val		00
				85					90				Ile	93	
	,	-	100					105					Ala 110		
		115				,	120					125	Gln		
	130					135					140		Ser		
145.					150		•			722	'		Leu		100
				165		١	ı.		1/0				Ser	1,5	
			180					185	•				Leu 190		
		195					200				•	205			
	210					215					221	j	ı Ile		
225					230					23:	•				Leu 240
				245	5				250	J				200	
			260	)				265	•				2/(	,	Ser
	1	275	5				280	)				20.	_	-	Asn
	29	0				29	5					U			Ser
305	5				310	Ò				31	.э				1 Ala 320
Va]	l Il	e Il	e Th	r Se	т Туі	r As	n Il	e Tr	p As 1477		et As	p Pr	o Gl	у Ту:	r Asp

330 325

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp 345 340

<210> 2217

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val

Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu 25

Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val 40

Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu 55 60

Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys

Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile 90 .

Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln 105 100

Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly 120

Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln 135

Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala 155 150

Ala Ser Gln Phe Tyr Pro Leu 165

<210>. 2218 <211> 110

<212> PRT

<213> Homo sapiens

<400> 2218

Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro 105

<210> 2219

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly 25

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys 55

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala 85

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val

Ser Lys Thr 115

<210> 2220

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (254)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu

Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr 40

Cys Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys 55

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His 85

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser 100

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr 115

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys 135

· Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val 145

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly 170

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr . 180

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile 200

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His

220 215 210

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser 230

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser 250

Arg Asn Phe Gln Thr Lys 260 -

<210> 2221

<211> 514

<212> PRT

<213> Homo sapiens

<400> 2221

Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg

Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser

Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln

Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser

Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro ຸ 70

Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly 90.

Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr 100

Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe 120

Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly 130· 135

Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Arg Lys Val . 155 150

Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly 170 165

Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala 185

Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His 195 . 200

Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys 215

Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr Thr Cys Ser Ala 230 Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu Glu Glu Val Leu 265 Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln Thr His Lys His 280 Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu Lys Arg Gly Leu 300 Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val Ser Arg Leu Leu 315 Glu Gin Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser Trp Glu Ala Gln 330 Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp Pro Gly Ala Glu 345 Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr Glu Gln Arg Arg 360 Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro Glu Glu Leu Arg 375 Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala Gln Glu Ile Phe 390 Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys Pro Ser Glu Arg 405 Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His Val Ser Gly Phe 420 Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala Gly Gly Ser 440 Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys Ile Ser Ala Ala 450 Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu Gly Gln Thr Val 475 Ala Leu Ala Ser Gly Thr Leu Ser Val Phe Cys Thr Val Arg Pro Ser 485 Ala Thr Gln Gly Leu Pro Ser Ala Gly Pro Gly Met Glu Lys Lys Ser . 505 Val Gln

<210> 2222 <211> 1745

<212> PRT

<213> Homo sapiens

<400> 2222

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu

Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr 40

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys 55.

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser 100

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr 115

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val 145

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly 170 165

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser 235

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe 250 245

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr 265

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr 285 280 275

Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr 290 295 300

Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr 305 310 315 320

Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln 325 330 335

Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln 340 345 350

Glu Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ala Thr Pro Trp

Thr Ala Cys Ser Ser Ser Cys Gly Gly Gly Ile Gln Ser Arg Ala Val 370 375 380

Ser Cys Val Glu Glu Asp Ile Gln Gly His Val Thr Ser Val Glu Glu 385 390 395 400

Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys Asn 405 410 415

Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr 420 425 430

Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asp 435 440 445

His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro His 450 455 460

Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu
465 470 475 480

Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu 485 490 495

Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro Lys 500 505

Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val Arg 515 520 525

Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala Asp 530 535 540

Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg Ala 545 550 560

Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro Asp 565 570 575

Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu Tyr 580 585 590

Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly Gly 595 600 605

Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg Glu 615 Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln Leu 635 630 Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile Gly Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr Arg 665 Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr Val 680 Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln 695 Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp 710 Gln Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val 725 Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys 760 755 Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser 775 Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys 785 Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro 810 805 Pro Leu Pro Phe Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys 820 Ala Arg Pro Gly Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala 840 Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe 855 850 Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu 875 870 . Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe 905 Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr 920

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile 930 935 940

- Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu 945 950 955 960
- Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln 965 970 975
- Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu 980 985 990
- Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val 995 1000 1005
- Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser 1010 . 1015 1020
- Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp 1025 1030 1035 1040
- Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr 1045 1050 1055
- Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro 1060 1065 1070
- Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala 1075 1080 1085
- Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys
- Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His 1105 1110 1115 1120
- Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala 1125 1130 1135
- Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys 1140 1145 1150
- Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu 1155 1160 1165
- Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His 1170 1175 1180
- Cys. Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn 1185 1190 1195 1200
- Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp 1205 1210 1215
- Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr 1220 1225 1230
- Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val 1235 1240 1245

Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile

- Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys 1265 1270 1275 1280
- Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val
- Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser 1300 1305 1310
- Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser 1315 1320 1325
- Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu 1330 1335 1340
- Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro 1345 1350 1360
- Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn 1365 1370 1375
- Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp 1380 1385 1390
- Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val 1395 1400 1405
- Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr 1410 1415 1420
- Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala 1425 1430 1435 1440
- Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn 1445 1450 1455
- Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr 1460 1465 1470
- Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn 1475 1480 1485
- Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu 1490 1495 1500
- Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro 1505 1510 1515 1520
- Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser 1525 1530 1535
- Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg 1540 1545 1550
- Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser 1555 1560 1565

Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala 1575

Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln 1595 1585 1590

Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln 1605 1610

Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys 1625

Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala . 1640

Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr 1655

Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala . 1670

Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg 1685

Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu 1705 1700

Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu 1720 1715

Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys . 1740 1735 1730

Ala 1745

<210> 2223

<211> 19

<212> PRT

<213> Homo sapiens

Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu

Ser Gly Gln

<210> 2224

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2224

Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser 10

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser 25 Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu 90 Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His 105 Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro 120 Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu 135 Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu 150 Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg 165 Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg 200 Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys 210 Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His 235 Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro Asp Pro Gln 265 Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp 280 Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr 295 Glu Glu Val Gln Gln Leu Ala Pro Pro Pro Pro Gly His Ser Ala 310 305 Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys . 330 325

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu 345

His Asp Gln Gly His Ser His Leu Gly Asp Pro

- <210> 2225
- <211> 183
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (86)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (146)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 2225
- Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
- Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala · 25
- Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
- Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro 55
- Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
- Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala 90.
- Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
- Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly 120
- Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly 135 130 .
- Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val
- Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg
- Arg Leu Cys Gly Cys Gly Gly 180

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<210> 2226
<211> 252
<212> PRT
<213> Homo sapiens
<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
' <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 2226
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
                                                  45
                               40
. Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
                          55
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
                                           75
                       70
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
                                      90
                  85
 Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
             100
 Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
                              120
  Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
                          135
      130
  Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
                                          155
                      150
  Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser
                                     1491
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165

170

175

Ala Ala Leu Arg Leu Trp Trp Leu Arg Val Pro Gly Leu Ala Pro Arg 180 185 190

Ser Cys Ser Ala Gly Gly Ala Arg Leu Thr Tyr Leu Leu Glu Thr Trp 195 200 205

Met Gln Arg Gln Arg Gly Gly Glu Trp Ala Gly Ala Thr Ser Ser Glu 210 215 220

Cys Asn Lys Gly His His Ser Pro Gly Lys Lys Lys Lys Lys Lys 235 240

Lys Lys Lys Lys Leu Glu Gly Gly Ser Arg Tyr 245 250

<210> 2227

<211> 150

<212> PRT -

<213> Homo sapiens

<400> 2227

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr 20 25 30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn 85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys 115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro 130 135 140

Ile Ser Ile Met Ile Cys 145 150

<210> 2228

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met 25

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala 55

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe 105

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu 120

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val . 25

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val

Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu 65

Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe 90

Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg 105

Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile 120

Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

	130					135					140				
Glu 145	Ser	Leu	Thr	Ile	Phe 1 150	Val	Asp	Lys	Arg	Lys 155	Leu :	Ser :	Lys i	Arg i	Ala 160
Glu	Gly	Ser	Asp	Ser 165	Thr	Thr	Asn	Ser	Ser 170	Ser	Val '	Thr	Leu (	Glu ' 175	Thr
Leu	His	Gln	Leu 180	Ala	Ala	Ser	Tyr	Phe 185	Ile	Asp	Arg	Asp	Ser 190	Thr	Leu
Arg	Arg	Leu 195	His	His	Ile	Gln	Ile 200	Ala	Ser	Thr	Ala	Ile 205	Lys	Val	Thr
	210				Pro	215				•	220				
225					Leu 230					235					240
				245	Leu				250					255	
			260		Tyr			265					270		
		275		•	Cys		280					203			
	290				Met	295					300				
305					Trp 310					315					320
				325			•		330	)				333	
	•		340	)				345	•				350	•	Gln
		355	5				360	)				300	•		Lys
	370	)			,	375	5 .				380				His
385	5				390	)				39:	)				Trp 400
				40	5				410	U				#1.	
			42	0 ·				42	5			•	431	,	Gln Ala
		43	5 .				44	0				44	5		r Ala s Asn
СУ	s Le	u Th	ır Cy	's Al	a Pr	O AS	p AS	H AI	1494		a cy	J (J1,			s Asn

	450 ,					455					460				
hr 65	Gly	Tyr	Met	Leu	Ser 470	Gln	Gly	Leu	Cys	Lys 475	Pro	Glu	Val	Ala	Glu 480
er	Thr	Asp	His	Tyr 485	Ile	Gly	Phe	Glu	Thr 490	Asp	Leu	Gln	Asp	Leu 495	Glu
let	Lys	Tyr	Leu 500	Leu	Gln	Lys	Thr	Asp 505	Arg	Arg	Ile <sup>.</sup>	Glu	Val 510	His	Ala
:le	Phe	Ile 515	Ser	Asn	Asp	Met	Arg 520	Leu	Asn	Ser	Trp	Phe 525	Asp	Pro	Ser
rp	Arg 530	Lys	Arg	Met	Leu	Leu 535	Thr	Leu	Lys	Ser	Asn 540	Lys	Tyr	Lys	Ser
Ser 545	Leu	Val	His	Met	Ile 550	Leu	Gly	Leu	Ser	Leu 555	Gln	Ile	Cys	Leu	Thr .560
Lys	Asn	Ser	Thr	Leu 565	Glu	Pro	Val	Leu	Ala 570	Val	Tyr	Val	Asn	Pro 575	Phe
Gly	Gly	Ser	His	Ser	Glų	Ser	Trp	Phe 585	Met	Pro	Val	Asn	Glu 590	Asn	Ser
Phe	Pro	Asp 595		Glu	Arg	Thr	Lys 600	Leu	Asp	Leu	Pro	Leu 605	Gln	Cys	Tyr
Asn	Trp 610		Leu	Thr	Leu	Gly 615	Asn	Lys	Trp	Lys	Thr 620	Phe	Phe	Glu	Thr
Val 625		·Ile	э Туг	Leu	Arg 630		Arg	Ile	Lys	Ser 635	Asn	Gly	Pro	Asn	Gly 640
Asn	Glu	Sei	r Ile	e Tyr 645	Tyr	Glu	Pro	Leu	Glu 650	ı Phe	Ile	Asp	Pro	Ser 655	Arg
Asr	. Lev	. Gl	y Ty:		. Lys	Ile	Asn	Asn 665	Ile	e Gl¤	Val	Phe	Gly 670	Tyr	Ser
Met	: His	Ph 67		p <sub>.</sub> Pro	Glu	Ala	11e 680	Arg	, Asi	) Leu	t Ile	685	.Gln	Leu	qaA ı
Ty:	690		r Th	r Glr	ı Gly	Ser 695	Gln	ı Asp	Sei	r Ala	700	ı Lev )	Glr	Leu	Leu 
70	5				.710	)				71:	•				720
Le	u Asj	o Le	u Ph	e Se: 72		E Lèt	ı Let	ı Arç	73	s Arg O	g Lei	ı Lys	: Leu	735	Thr
			74	.0				74	5				/51	j	a Lys
. Le	u Pr	o As		r Me	t Asj	р Ту	r Ası 76	o Thi	r Th	r Ly	s Le	и Су: 76	s Se: 5	r	

<210> 2230 <211> 61 <212> PRT <213> Homo sapiens <400> 2230 Met Lys Ser Ala Let 1

<400> 2230
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
1 5 10 15

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser 20 25 30

The Asp Glu Gln The Asn Asn Leu Gln Tyr The Cys Thr Met Glu Tyr 35 40 45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln 50 . 55 60

<210> 2231

<211> 133 ·

<212> PRT

<213> Homo sapiens

<400> 2231

Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr 1 5 10 15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro 20 25 30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile 35 40 45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly 50 55 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr 65 70 75 80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala 85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro 100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val 115 120 125

Phe Phe Val Arg Asp 130

<210> 2232

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu

Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn 25

Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu

Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp

Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile

Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu

Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp

Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe . 120

Val Arg Asp 130

<210> 2233

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2233

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu 90

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp 100

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe 120

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn 135 Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp 155 150 Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu 170 Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe 185 Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala 200 Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His 235 230 Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys 250 Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu . 265 Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys 280 Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe 295 290 <210> 2234 <211> 158 <212> PRT <213> Homo sapiens <400> 2234 Met Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala

Cys Gly Thr Val Gly Leu Leu Glu His Ser Phe Glu Ile Asp Asp

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp 65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly 85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg 105

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys 120 115

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser 135

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser 150

<210> 2235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2235

Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln 20

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly 55 50

<210> 2236

<211> 71

<212> PRT

<213> Homo sapiens

Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala 10

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu

Ile His Val Gly Leu Leu Asn

<210> 2237

<211> 605

<212> PRT

<213> Homo sapiens

<400> 2237 Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu Asp Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly 75 Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln 90 Tyr Phe Trp Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly 120 Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser 135 Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro 155 Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Leu Leu Pro Val 185 Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu 200 195 Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp . 215 220 Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly 235 225 Pro Ser Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly 250 Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala 260 Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu 280 Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro 300 295

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His 310 Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu 325 Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln 345 Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln 360 Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser 375 Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile 395 390 Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu 405 . Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp 420 His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser 450 Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn 475 Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser 490 Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys 505 Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg 520 Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val 535 Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser 555 545 Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala 570

Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
595 600 605

Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp 580 585 590

<211> 432 <212> PRT

<213> Homo sapiens

<400> 2238

Met Asp Ala Arg Trp Trp Ala Val Val Leu Ala Ala Phe Pro Ser

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser 35

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys 65

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val 125 120

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser . 135

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg 155 150

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln 170

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser 185

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser 200

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met 215

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr 225 230

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser 245

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu 260

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp 280

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe

300 295 290

Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu 310

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu

Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln 345

Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr 360

Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu 375

Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val 390

Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys 410

Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val 420

<210> 2239

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2239

Met Asp Ala Arg Trp Trp Ala Val Val Leu Ala Ala Phe Pro Ser

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro 90

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu 105

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val · 120 115

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser 135 130 Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg 150 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln · 165 Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser 185 180 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser 205 200 195 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met 215 Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr 235 230 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser 250 245 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu 260 265 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp 280 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe 295 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu 315 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu 325 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr 360 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val 395 385 390 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys 410 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val 425

<210> 2240

<211> 69 <212> PRT <213> Homo sapiens · <400> 2240 . Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser 10 Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu 25 Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr 40 . 35 Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala . 55 Pro Phe Ile Lys Ile 65 <210> 2241 <211> 57 <212> PRT <213> Homo sapiens <400> 2241 Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His 10 Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu 20 Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser 40 35 Trp Ala Arg Pro Leu Gly Asp Leu Glu <210> 2242 <211> 145 <212> PRT <213> Homo sapiens <400> 2242 Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Pro 1 5 Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu 25 30 20 Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Gln Leu Leu Asp , 45 40 35

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser 105

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln 120

Ala Tyr Pro Thr Ser-Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn 135

Arg 145

<210> 2243

<211> 77

<212> PRT

<213> Homo sapiens

<400> 2243

Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp 10

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg 20

Gln Gln Pro Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn 40

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser 55 50

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr 70

<210> 2244

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2244

Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val 25

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile

40

Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr

Ala Ile Pro Gly Cys Leu

<210> 2245

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2245

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn 55 .

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp 75 70

Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn 90

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu 100 105

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile 120

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala 135

Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys 155 150

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr 165

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser . 185

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Alá Ile Ile . 200 195

<210> 2246 <211> 215 <212> PRT <213> Homo sapiens <400> 2246 Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu 25 Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly 40 Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala 55 Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro 70 Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys 85 . Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu 100 Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg 120 Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser 135 · 130 Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr 155 160 145 · Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu 170 165 Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln 185 Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly . 205 200 195 . Ser Thr Ser Leu Ala Ser His

<210> 2247

210

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2247

Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn

10 1

Gly Arg Val Leu. Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala 85

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys 100

Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu 120 115

Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly 135 130

<210> 2248

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2248

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys 70 ·

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys 105

Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys 120

Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn 135

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser

155 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln 170 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp 185 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe 200 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe 220 215 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His 235 . 230 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr 265 260 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn 275 . . Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu 295 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu 315 310 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys 330 325 . Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His 340 345 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val 360 <210> 2249 <211> 85 <212> PRT <213> Homo sapiens <400> 2249 Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Pro Leu Ser 10 Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser

25

Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys

Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile 55

Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile 75

Lys Pro His Phe Gln

<210> 2250

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2250

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg

Pro Gly Arg Gly Gln Thr Gln Glu Glu Glu Glu Glu Asp Glu Asp

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu 40 35

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr 65 ·

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly

Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp 105

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met 120 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser 135

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser 155 150

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu 170 165

Gly Ala Met Gly Ala Arg Arg Pro 180

<210> 2251

<211> 352

<212> PRT

<213> Homo sapiens .

<400 Met 1	> 22 Val	51 Glu	Ala	Leu 5	Arg	Ala	Gly	Ser	Ala 10	Arg	Leu	Val	Ala	Ala 15	Pro
Val	Ala	Thr	Ala 20	Asn	Pro	Ala	Arg	Суs 25	Leu	Ala	Leu	Asn	Val 30	Ser	Leu
Arg	Glu	Trp 35	Thr	Ala	Arg	Tyr	Gly 40	Ala	Ala	Pro	Ala	Ala 45	Pro	Arg	Cys
Asp	Ala 50	Leu	Asp	Gly	Asp	Ala 55	Val	Val	Leu	Leu	Arg 60	Ala	Arg	Asp	Leu
Phe 65	Asn	Leu	Ser	Ala	Pro 70	Leu	Ala	Arg	Pro	Val 75	Gly	Thr	Ser	Leu	Phe 80
Leu	Gln	Thr	Ala	Leu 85	Arg	Gly	Trp	Ala	Val 90	Gln	Leu	Leu	Asp	Leu 95	Thr
Phe	Ala	Ala	Ala 100	Arg	Gln	Pro	Pro	Leu 105	Ala	Thr	Ala	His	Ala 110	Arg	Trp
Lys	Ala	Glu 115		Glu	Gly	Arg	Ala 120	Arg	Arg	Ala	Ala	Leu 125	Leu	Arg	Ala
Leu	Gly 130		Arg	Leu	Val	Ser 135	Trp	Glu	Gly	Gly	Arg 140	Leu	Glu	Trp	Phe
Gly 145		Asn	Lys	Glu	Thr 150		Arg	Cys	Phe	: Gly 155	Thr	Val	Val	Gly	Asp 160
Thr	Pro	Ala	Tyr	Leu 165		Glu	Glu	Arg	Trp 170	Thr	Pro	Pro	Cys	Cys 175	Leu
Arg	Ala	Lev	180		Thr	: Ala	Arg	185	Val	. Val	. Gly	val	Leu 190	. Glu	Ala
Ala	Gly	Val 195		J Tyr	Tr	Let	200	i Gly )	Gly	, Sei	: Lev	1 Lev 205	Gly	Ala	Ala
Arg	His 210			ıl.	e Ile	215	o Trp	As <u>r</u>	туг	c Ası	vai 220	l As <u>r</u> }	Let	ı Gly	, Ile
225	5			٠.	230	0				. <b>43</b> :	<b>5</b>				1 Ala 240
Gl	/ Se	r Va	l Va	1 Ası 24		u Ar	g Gl	y Pho	e Va 25	1 Tr	p Glu	ı Ly	s Ala	a Va:	l Glu 5
Gly	y As	p Ph	e Ph 26		g Va	1 Gl:	n Ty	r Se	r Gl	u Se	r Ası	n Hi	s Let	u Hi: O	s Val
As	p Le	u Tr 27		o Ph	е Ту	r Pr	o Ar 28	g As 0	n Gl	y Va	l Me	t Th 28	r Ly 5	s As	p Thr
Tr	p Le 29		p Hi	s Ar	g Gl	n As 29	p Va 5	1 G1	u Ph	e Pr	o Gl 30	u Hi O	s Ph	e Le	u Glr

Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu 325

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly

-<210> 2252

<211> 448

<212> PRT

<213> Homo sapiens

<400> 2252

Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Pro

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala 20

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala 40

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu 55 50

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn 85

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu 105

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala 135

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu . 155 150 145

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser 170

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile 185

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val 200

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala 220 215

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr 230 Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr 250 Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Gln 265 Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp 280 Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu 315 310 Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg 330 Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe · 345 Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu 360 Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp 375 Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp . 390 Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp 405 His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp 435

<210> 2253

<211> 183

<212> PRT

<213> Homo sapiens

Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro

Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys

Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser

.45 40

Glu Glu Trp Met His Val Leu Glu Asp Ile Ala Lys Phe Phe Lys Ala

Ile Val Gly Lys Asn Leu Pro Asp Glu Glu Ile Phe Gln Gln Leu Asn

Gln Leu Asn Ser Leu His Gln Glu Thr Ile Met Lys Cys Val Lys Ser

Arg Lys Asp Glu Ile Lys Gln Ala Leu Ser Arg Glu Ile Val Ala Ile 105

Ser Ser Ala Gln Leu Gln Asp Phe Asp Trp Gln Val Lys Leu Ala Leu 120

Ser Ser Asp Lys Ile Ala Ala Leu Arg Met Pro Leu Leu Ser Leu His 135

Leu Asp Val Lys Glu Asn Gly Glu Val Lys Pro Tyr Ser Ile Glu Met

Ser Arg Glu Glu Leu Gln Asn Leu Ile Gln Ser Leu Glu Ala Ala Asn 170

Lys Val Val Leu Gln Leu Lys 180

<210> 2254

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2254

Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn 5

Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp . 25

Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn 35

Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn 55

Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala 65

Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe

Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg

Asn Met Val Gln Arg Gln Phe Ile Ala

<211 <212	> 22 > 25 > PR > Ho	1 T .	apie	ns			_	-							
<400 Met 1	> 22 Leu	55 Phe	His	Tyr 5	a Asp	Trp	Ile	Ser	Ile 10	Pro	Leu ¹	Val '	Tyr '	Thr 15	Gln
Val	Val	Thr	Ile ·20	Ala	Val	Tyr	Ser	Phe 25	Phe	Ala	Leu	Ser	Leu '	Val	Gly
Arg	Gln	Phe 35	Val	Glu	Pro	Glu	Ala 40	Gly	Ala	Ala	Lys	Pro 45	Gln	Lys	Leu
Leu	Lys 50	Pro	Gly	Gln	Glu	Pro 55	Ala	Pro	Ala	Leu	Gly 60	Asp	Pro	Asp	Met
Tyr 65	Val	Pro	Leu	Thr	Thr 70	Leu	Leu	Gln	Phe	Phe 75	Phe	Tyr	Ala	Gly	Trp 80
Leu	Lys	Val	Ala	Glu 85	Gln	Ile	Ile	Asn	Pro 90	Phe	Gly	Glu	Asp	Asp 95	Asp
Asp	Phe ·	Glu	Thr 100		Gln	Leu	Ile	Asp 105	Arg	Asn	Leu	Gln	Val 110	Ser	Leu
Leu	Ser	Val 115		Glu	Met	Týr	Gln 120	Asn	Léu	Pro	Pro	Aļa 125	Glu	Lys	Asp
Gln	.Tyr 130		Asp	Glu	Asp	Gln 135	Pro	Gln	Pro	Pro	Туг 140	Thr	Val	Ala	Thr
Ala 145		Glu	Ser	Leu	Arg 150		Ser	Phe	Leu	Gly 155	Ser	Thr	Phe	Asn	Leu 160
Arg	Met	. Ser	: Asp	Asp 165	Pro	Glu	Gln	Ser	170	Gln	Val	Glu	Ala	Ser 175	Pro
Gly	/ Ser	Gly	/ Arc		) Ala	Pro	Ala	Ala 185	Glr	ı Thr	Pro	Leu	Leu 190	Gly	Arg
Phe	e Leu	1 Gly		Gl?	/ Ala	a Pro	Ser 200	Pro	Ala	a Ile	e Ser	Leu 205	Arg	Asn	Phe
Gl	y Arg 210		l Arg	g Gly	y Thì	21!	Arg	g Pro	Pro	o His	220	Lev )	ı Arg	Phe	Arg
Al 22		ı Gl	u Gl	y,Gl	y Asj 23	o Pro	o Gli	ı Ala	a Ala	a Ala 23	a Arç	; Ile	e Glu	ı Glı	1 Glu 240
Se	r Ala	a Gl	u Se	r Gl		p Gl	u Ala	a Le	u Gl 25	u Pro					
				•											

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2256

Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn

Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro 25

Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln 35

Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser

Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu

Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln

Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr

Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly 120

<210> 2257

<211> 170

<212> PRT

.<213> Homo sapiens

<400> 2257

Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr

Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe

Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met. 40 ·

Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Glu Asp Leu Val Asp . 50 55

Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn 70

Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro 90

Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu ~ 100 105

Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp . 120

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser 135 130

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly 155

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp 165

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Pro Pro Leu Cys Gly Arg Val 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val 25

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr . 40

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg 105

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met 120

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr 150 145

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro 170 165

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro 200

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly 220 215

Asp 225	Pro	Gln	Thr	Asn	Asn 230	Cys	Ser	Leu	Ser	Ile 235	Arg	Asp	Ala	Arg	Lys 240
Gly	Asp	Ser	Gly	Lys 245	Tyr	Tyr	Phe	Gln	Val 250	Glu	Arg	Gly	Ser	Arg 255	Lys
Trp	Asn	Tyr	Ile 260	Tyr	Asp	Lys	Leu	Ser 265	Val <sub>.</sub>	His	Val	Thr	Ala 270	Leu	Thr
His	Met	Pro 275	Thr	Phe	Ser	Ile	Pro 280	Gly	Thr	Leu	Glu	Ser 285	Gly	His	Pro
Arg	Asn 290	Leu	Thr	Суз	Ser	Val 295	Pro	Trp	Ala	Cys	Glu 300	Gln	Gly	Thr	Pro
Pro 305	Thr	Ile	Thr	Trp	Met 310	Gİy	Ala	Ser	Val	Ser 315	Ser	Leu	Asp	Pro	Thr 320
Ile	Thr	Arg	Ser	Ser 325	Met	Ļeu	Ser	Leu	Ile 330	Pro	Gln	Pro	Gln	Asp 335	His
Gly	Thr	Ser	Leu 340		Cys	Gln	Val	Thr 345	Leu	Pro	Gly	Ala	Gly 350	Val	Thr
Met	Thr	Arg 355		Val	Arg	Leu	Asn 360	Ile	Ser	Tyr	Pro	Pro 365	Gln	Asn	Leu `
Thr	Met 370		Val	Phe	Gln	Gly 375	Asp	Gly	Thr	Ala	Ser 380	Thr	Thr	Leu	Arg ,
Asn 385		Ser	: Ala	. Leu	Ser 390		Leu	Glu	Gly	.Glr 395	ser	Leu	His	: Leu	Val 400
Cys	Ala	Val	. Asr	Ser 405		Pro	Pro	Ala	Arg 410	r Leu	ı Ser	Trp	Thi	415	Gly
Ser	Lev	ı Thi	Let 420		Pro	Ser	Gln	Ser 425	: Ser	Ası	ı Lev	Gly	430	L Let	ı Glu
Let	ı Pro	Arg 435		l His	s Val	Lys	Asp 440	Glu	ı Gly	/ Gli	ı Phe	445	Cy:	s Arg	g Ala
Glı	n Asr 450		o Lei	u Gly	y Sei	Glr 455	n His	; Ile	e Sei	r Le	u Sei 460	: Lei	į Se	r Le	ı Gln
As:		и Ту	r Th	r Gl	y Ly:	s Met	t Arg	g Pr	o Il	e Se 47	r Gly 5	y Va	l Th	r Le	u Gly 480
Αļ	a Ph	e Gl	y Gl	y Al 48		y Ala	a Thi	r Al	a Le	u Va Oʻ	l Ph	e Le	и Ту	r Ph 49	e Cys 5
ΙÌ	ė Il	e Ph	e Va 50		l Va	1 Ar	g Se	r Cy 50	s Ar 5	g Ly	s Ly	s Se	r Al 51	a Ar .0	g Pro
Al	a Va	1 G1 51		1 Gl	y As	p Th	r Gl	у Ме 0	t Gl	u As	p Al	a As 52	n Al 5	a Va	1 Arg
Gl	y S∈ 53		a Se	er Gl	n Gl	y Pr 53	о Le 5	u Il	e Gl	u Se	er Pr 54	o Al 0	a As	ap As	p Ser

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu 550

Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln 565

Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn

Ile Pro Lys 595

<210> 2259

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2259

Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe

Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val

Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu 50

Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu Phe Asp Leu Ala Gly Arg

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser 105

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His 135

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val 155

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn 170

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn 185 180

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro 200

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser

220 215 210

Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp 235 230

Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp 265

Ser Leu

<210> 2260

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser 40

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe 55 ' 50

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg 70

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly 120 . 125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr 135

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg . 150 155

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala . 170

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu 180 .

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly 200

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala 210 215 220

Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro 225 230 235 240

Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp 245 250 255

Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr 260 265 270

Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser 275 280 285

Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp 290 295 300

Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr 305 310 315 320

Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser 325 330 335

Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr 340 345 350

Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val 355 360 365

Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu 370 380

Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr 385 390 395 400

Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser 405 410 415

Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg 420 425 430

Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu 435 440 445

Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu 450 455 460

Glu Ser Val Val 465

<210> 2261

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala

Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu

His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg 40 45

Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu

Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile 75

Ser Thr Thr Ser Arg Leu 85

<210> 2262

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2262

Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys 10

Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp 20

Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly 35 40 45

Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr . 50

Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu

Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly

Thr Asp Tyr Lys Asp Asp Asp Asp Lys . 100

<210> 2263

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2263

Met Ala Ala Ser Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser 10

Trp Ser Arg Glu Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro

Val Cys Ala Lys Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp

- Lys Pro Val Thr Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His
- Arg Lys Gly Trp Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp 70
- His Ala Ala Glu Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met
- Trp Gly Thr Phe Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg
- Arg Gly Asn Gln Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser
- Pro His Lys Tyr Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser 1:35
- Tyr Phe Tyr Lys Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser . 155 150
- Lys Val Val Tyr Lys Tyr Leu 165

<210> 2264

<211> 203

<212> PRT

<213> Homo sapiens

<400> 2264

- Met Ala Arg Pro Arg Pro Arg Glu Tyr Lys Ala Gly Asp Leu Val Phe
- Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Glu Leu
- Pro Glu Gly Ala Val Lys Pro Pro Ala Asn Lys Tyr Pro Ile Phe Phe
- Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro
- Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys Gly
- Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys Phe
- Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Glu Thr Glu Gly 105
- Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp Arg 120

Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser 135

Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg 150

Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Asn 170

Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr 185

Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr 200

<210> 2265

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2265

Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser 5

Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys 25 30 20

Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His 40 35

Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser 55

Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp

Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys

Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro

Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Ser Lys

Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys 135

Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly 155 150

Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg 170

Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg 185

Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu

195 200 205

Ala Leu Ser Gln Leu Ser Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe 210 215 220

Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala 225 230 235 240

Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys 245 250

<210> 2266

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2266

Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys

1 5 10 15

Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala 20 25 30

Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Gly Thr His 35 40 45

Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys 50 55 60

Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly 65 70 75 80

Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro 90 95

Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asn Pro Ala Asp 100 105 110

Gly Ser Asp Ala Asp Glu Asp Glu Asp Arg Gly Val Met Ala Val 115 120 125

Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser 130 135 140

Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro 145 150 155 160

Ala Leu Lys Met Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp 165 170 175

Leu Asp Gln Ala Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser 180 185 190

Ser Ser Glu Ser Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys 195 200 205

Lys Ala Ala Val Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys 210 215 220

Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser

- Asp Gly Ala Lys Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser 245
- Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys . 265
- Pro Pro Arg Gly Arg Lys Pro Thr Glu Lys Pro Leu Pro Lys Pro Arg 280
- Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Asp 295

Ser Asp Ser Asp Glu Val Asp Arg Ile Thr 310

<210> 2267

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2267

- Met Gly Ser Arg Gly Gln Gly Leu Leu Leu Ala Tyr Cys Leu Leu Leu
- Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val Gln Gly
- Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser Pro Pro Asp 40
- His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr Arg Pro Ser Gln
- Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg Cys Cys Asp Pro Gly
- Thr Ser Met Tyr Pro Ala Thr Ala Val Pro Gln Ile Asn Ile Thr Ile
- Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Arg Gly Leu Gln Gly Lys 105 . 100
- Tyr Gly Lys Thr Gly Ser Ala Gly Ala Arg Gly His Thr Gly Pro Lys 120
- Gly Gln Lys Gly Ser Met Gly Ala Pro Gly Glu Arg Cys Lys Ser His 135
- Tyr Ala Ala Phe Ser Val Gly Arg Lys Lys Pro Met His Ser Asn His
- Tyr Tyr Gln Thr Val Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp 175 . 170

# INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

(PCT Rule 13bis)

(te	1 Kmc 1503)
A. The indications made below relate to the deposited micr description on page 243, line 24.	coorganism or other biological material referred to in the
B. IDENTIFICATION OF DEPOSIT	Further deposits are identified on an additional sheet
Name of depositary institution: American Type C	Culture Collection
Address of depositary institution (including postal 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	il code und country)
Date of deposit	Accession Number
11 April 2001	PTA-3276
C. ADDITIONAL INDICATIONS (leave blank if not appl	heable) This information is continued on an additional sheet.
D. DESIGNATED STATES FOR WHICH INDICATION	ONS ARE MADE (If the indications are not for all designated States)
until the publication of the mention of the grant of the Europe	sought a sample of the deposited microorganism will be made availabe an patent or until the date on which the application has been refused or such a sample to an expert nominated by the person requesting the Continued on additional sheets
E. SEPARATE FURNISHING OF INDICATIONS (Journ	oe blank if not applicable)
The indications listed below will be submitted to the international Number of Deposit")	Butcau later (specify the general nature of the indications e.g., "Accessio.
For receiving Office use only	For International Bureau use only
This sheet was received with the international application	15 MAY 2000 (15.05.01)
Authorized offices	Authorized officer P. Becarnel
Revised Form PCT/RO/134 (January 2001)	Petrol 34up

ATCC Deposit No.: PTA-3276

#### CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

#### **NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

#### **AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

#### **FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

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ATCC Deposit No.: PTA-3276

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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

OR OTHER BIO	OLOGICAL MATERIAL
(PC	T Rule 13bis)
A. The indications made below relate to the deposited micro description on page 243, line 24.	oorganism or other biological material referred to in the
B. IDENTIFICATION OF DEPOSIT	Further deposits are identified on an additional sheer 🗵
Name of depositary institution: American Type C	ulture Collection
Address of depositary institution (including postal 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	code and country)
Date of deposit	Accession Number
11 April 2001	PTA-3277
C. ADDITIONAL INDICATIONS (leave blank if not applied	cuble) This information is continued on an additional sheet.
D. DESIGNATED STATES FOR WHICH INDICATION	NS ARE MADE (f the indications are not for all designated States)
unnl the publication of the mention of the grant of the Europea	sought a sample of the deposited microorganism will be made available in patent or until the date on which the application has been refused or such a sample to an expert nominated by the person requesting the Continued on additional sheets
E. SEPARATE FURNISHING OF INDICATIONS Reaps	blunk if our applicables
The indications listed below will be submitted to the international Number of Deposit") .	Buseau later (specify the general nature of the indicutions e.g., "Accession
For receiving Office use only	For International Bureau use only
This sheet was received with the international application	15 MAY 2009
Authorized officer	Authorized officer
Revised Form PCT/RO/134 (Junuary 2001)	Petro134ep.solin

ATCC Deposit No.: PTA-3277

#### CANADA

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A. The indications made below relate to the deposition description on page 243, line 24.	ged microorganism or other biological material referred to in the
B. IDENTIFICATION OF DEPOSIT	Further deposits are identified on an additional sheet
Name of depositary institution: American	Type Culture Collection
Address of depositary institution (including 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	g postal code and country)
Date of deposit	Accession Number
11 April 2001	PTA-3278
C. ADDITIONAL INDICATIONS (leave blank if	This information is continued on an additional sheet
D. DESIGNATED STATES FOR WHICH IND	CATIONS ARE MADE (if the indications are not for all designated States)
until the publication of the mention of the grunt of the	Putent is sought a sample of the deposited inicroorganism will be made available e European patent or until the date on which the application has been refused or issue of such a sample to an expert nominated by the person requesting the Continued on additional sheets
E. SEPARATE FURNISHING OF INDICATION	ONS (team blank if not applicable)
The indications listed below will be submitted to the integral of Deposit")	ernational Bureau later (specify the general nature of the indications e.g., "Accession
For receiving Office use only	For International Bureau use only
This sheet was received with the international applic	Tation 22-This sheet was received by the International Bureau on 1.5 MAY AM (1.5.05. U1)
Authorized officer	Authorized officer
Revised Forth PCT/RO/134 (January 2001)	Petro I 34cp soll

ATCC Deposit No.: PTA-3278

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Date of deposit	Accession Number
11 April 2001	PTA-3279
C. ADDITIONAL INDICATIONS (leave blank if	not applicable) This information is continued on an additional sheet.
Europe In respect of those designations in which a European until the publication of the mention of the grant of the	Patent is sought a sample of the deposited microorganism will be made available European patent or until the date on which the application has been refused or issue of such a sample to an expert nominated by the person requesting the Continued on additional sheets
e. Separate furnishing of indicatio	DNS (leare blank if not applicable)
The indications listed below will be submitted to the inte Number of Deposit")	emational Buteau later (specify the general nuture of the indications e.g., "Accession
For receiving Office use only	For International Bureau use only
☐ This sheet was received with the international application	This sheet was received by the International Bureau on:
Authorized officer	Authorized officer
Revised Form PCT/RO/134 (Junuary 2001)	Petro 134ep solli

ATCC Deposit No.: PTA-3279

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

IPC(7)	SSIFICATION OF SUBJECT MATTER : C07H 21/04						
US CL: 536/23.4, 23.5  According to International Patent Classification (IPC) or to both national classification and IPC							
		iational Ci	assincation and IPC				
B. FIEL	DS SEARCHED						
Minimum do	cumentation searched (classification system followed	by classif	ication symbols)				
	36/23.4, 23.5	•	,	Į.			
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Documentati	on searched other than minimum documentation to th	e extent th	at such documents are included	in the fields searched			
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	ata base consulted during the international search (na	ne of data	base and, where practicable, s	earch terms used)			
WEST, DIA	LOG			i			
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a	ppropriate.	, of the relevant passages	Relevant to claim No.			
Y	WO 97/34997 A1 (HUMAN GENOME SCIENCES	S. INC.) 2	5 September 1997, see the	1-9, 15-19			
• •	whole document.	-,		,			
***	· · · · · · · · · · · · · · · · · · ·	MITED	10 July 1007, see the whole	1-9, 15-19			
Y	WO 97/24445 A1 (DELTA BIOTECHNOLOGY L	IMITED)	10 July 1997, see the whole	1-9, 13-19			
	document.			104540			
Y	EP 0 322 094 A1 (DELTA BIOTECHNOLOGY LI	MITED)	28 June 1989, see Figure 1.	1-9, 15-19			
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Furthe	r documents are listed in the continuation of Box C.		See patent family annex.				
			later document published after the inte	marional filing date or priority			
*	pecial categories of cited documents:	,	date and not in conflict with the applic	ation but cited to understand the			
"A" documen	t defining the general state of the art which is not considered to be		principle or theory underlying the inve	ention			
of partice	ular relevance						
#E*!!	oplication or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be conside				
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	the publication date of another citation or other special reason (as	"Y"	document of particular relevance; the				
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priority (	date claimed						
Date of the a	actual completion of the international search	Date of	mailing of the international sea	rch report			
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Facsimile N	o. (703)305-3230	i elepno:	ne No. (703) 308-0196				

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claim Nos.: 10-14, 20-32, 34-36 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet					
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search repor is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-9, 15-19, protein X HETFO52					
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.					

International	application	No.

#### INTERNATIONAL SEARCH REPORT

PCT/US01/11988

## BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

1. Groups 1-6918, claims 1-9 and 15-19 (all in part), drawn to an albumin fusion protein comprising a Therapeutic protein: X and albumin.

If Group 1 is elected, this correlates to protein identified by X=HETFO52 with a preferred indication Y: neural/sensory, reproductive.

If Group 2 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.

5. Groups 6919-13836, claim 33 (in part), drawn to a method of extending the shelf life of a Therapeutic protein:X. If Group 6919 is elected, this correlates to protein identified by X=HETFO52 with a preferred indication Y: neural/sensory, reproductive.

If Group 6920 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.

The inventions listed as Groups 1-13836 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature is an albumin fusion protein. Balance et al. (WO 90/13653) teach albumin fusion proteins comprising human fibronectin, CD4, platelet derived growth factor, transforming growth factor beta, human von Willebrand factor or alpha-1-antitrypsin.

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